

RG 104 - Entry 23

Box 1, Vol 2 July, 1906 - December 31, 1915

1906 - 1940

Copies of Letters and Reports sent to the
Superintendent of the Denver Mint by the
Melter & Refiner's Department



MANN'S PARCHMENT COPYING PAPER.

(TRADE-MARK REGISTERED.)

This Parchment Paper is **MUCH STRONGER** and shows a **CLEARER COPY** than any other ever made for the purpose. The ink is **LESS LIABLE TO SPREAD** and the paper can be written upon with a pen.

DIRECTIONS FOR COPYING.

Place a piece of blotting-board under the leaf of Copying Paper; then, with brush, wet the leaf. Take off surplus water with another sheet of blotting-paper; then place the written letter on the leaf (leaving the blotting-paper under the leaf, to take up any excess of water that may yet remain;) place it in the press, and, in ten or fifteen seconds, a perfect copy will be secured.

The leaves **WILL DRY AS SMOOTH AS SILK**, if the book is placed in the Press after Copying.

Place oil-sheets between copies just made, to prevent blending or setting-off.

Another Process when many letters are to be copied.

Procure a tin or iron box, with lid, to hold 20 blotting-pads.—(Boxes furnished, if desired.)

Dip half the lot of blotters in water; let them drain off a few moments; then place a dry blotter between each wet one; give them a few minutes' squeeze in Press and they will remain wet for three days; then take an oil-sheet; place it to the left; then lay a wet blotter; then turn leaf of Copying over on blotter; then lay your letter on; then another oil-sheet, and so on; and you can copy all your letters at one time; thereby saving time. With a little care and experience, at first, as to wetting, you will be so well pleased, as never to resume the old way.

HILL'S BLOTTER BATHS are the best adapted for use in this Process.

To copy **TYPE-WRITTEN LETTERS**, the leaves require **MORE MOISTURE** than they do to Copy Letters written with **PEN AND INK**.

M. & R. Office
U.S. MINT, DENVER

Absence, Monthly Statement

<u>1909</u>	Page
July	3
Aug	7
Sept	9
Oct	17
Nov	20
Dec	23
<u>1910</u>	
Jan	29
Feb	35
Mch	40
Apr	45
May	51
June	54
July	86
Aug	90
Sept	96
Oct	108
Nov.	113
Dec	119
<u>1911</u>	
Jan	124
Feb	129
Mch	137
Apr	143
May	148
June	202
July	211
Aug	215
Sept	219
Oct	224
Nov	231
Dec	234
<u>1912</u>	
Jan	249
Feb	252
Mch	258

Annual Report, June, 1910, 59

" " " 1911, 152

" " " " 205

Assay's Auct 237

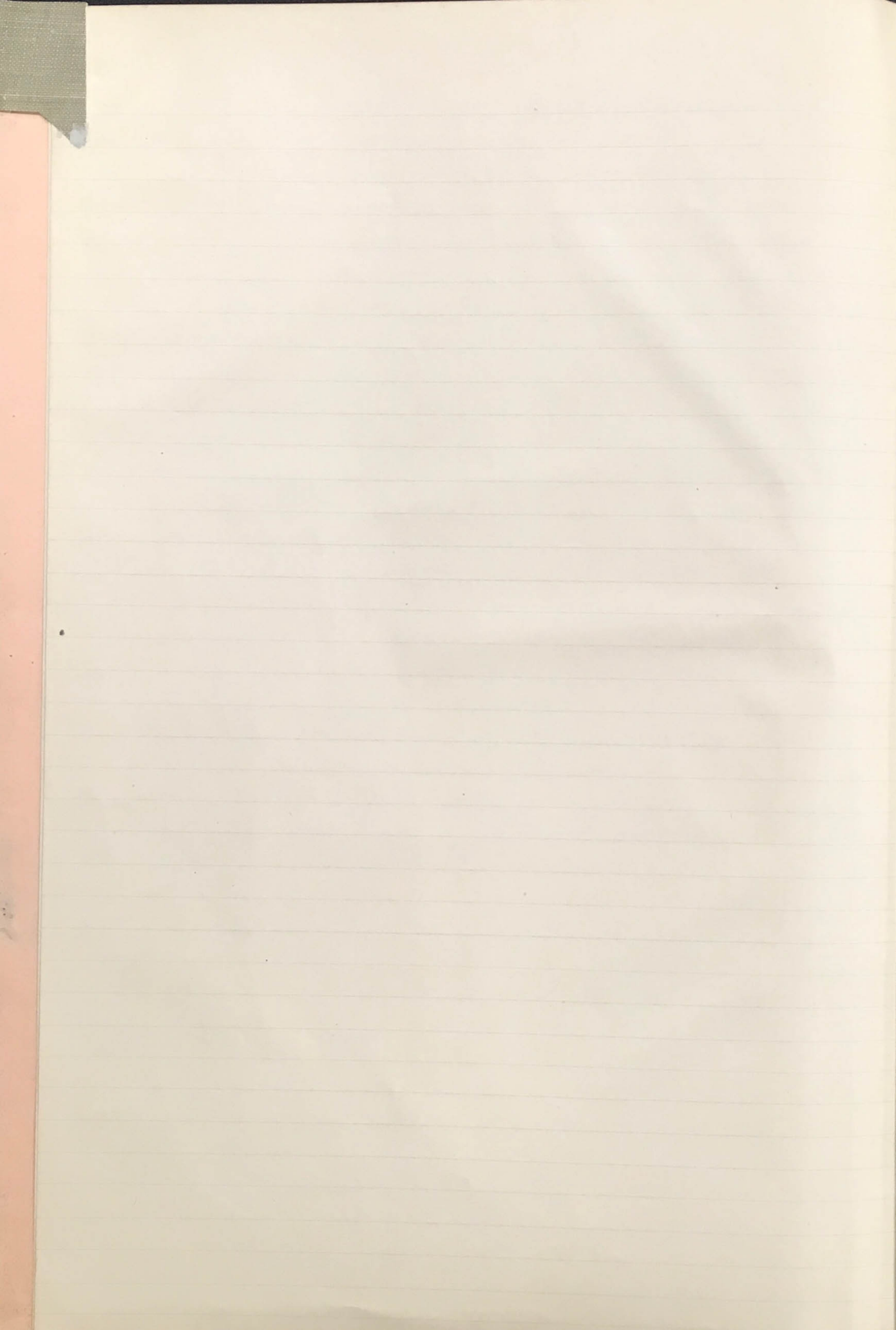
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Billion Balance, Monthly Statements

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Sept	8
Oct	16
Nov	19
Dec	22
1910	
Jan	27
Feb	33
Mch	38
Apr	44
May	49
June	63
July	85
Aug	89
Sept	94
Oct	106
Nov.	111
Dec.	117
1911	
Jan	122
Feb	127
Mch	136
Apr	141
May	147
June	155
July	209
Aug	213
Sept	217
Oct	221
Nov	229
Dec	233
1912	
Jan	247
Feb	251
Mch	255

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Comparative Statement of Logot Room Wastage 62

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Estimate of Supplies 32

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Gold Deposit[#] 1046 - 99

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Ingot Melting

1910
Jan - 28

Feb - 34

Mar - 39

Apr - 46

May - 50

June - 55

July - 87

Aug - 91

Sept - 95

Oct - 107

Nov - 112

Dec - 118

1911
Jan - 123

Feb - 128

Mar - 138

Apr - 142

May - 146

June - 201

July - 210

Aug - 214

Sept - 218

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" 1, 1911 - 151

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Operations Reports

<u>1909</u>	<u>Page</u>	<u>Ref</u>
July	4	
Aug	10	
Sept	11	
Oct	18	
Nov	21	
Dec	24	
<u>1910</u>		
Jan	31	
Feb	36	
Mch	41	
Apr	47	
May	53	
June	57	
July	88	
Aug	92	
Sept	97	
Oct	-109	
Nov	114	
Dec	-120	
<u>1911</u>		
Jan	-125	
Feb	-130	
Mch	-139	
Apr	-144	
May	-149	
June	-203	
July	-212	
Aug	-216	
Sept	-220	
Oct	-225	
Nov	-232	
Dec	-236	
<u>1912</u>		
Jan	-250	
Feb	-254	
Mch	-259	

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Reassay on Copper base 5

Refy Silver Set mt bar 25

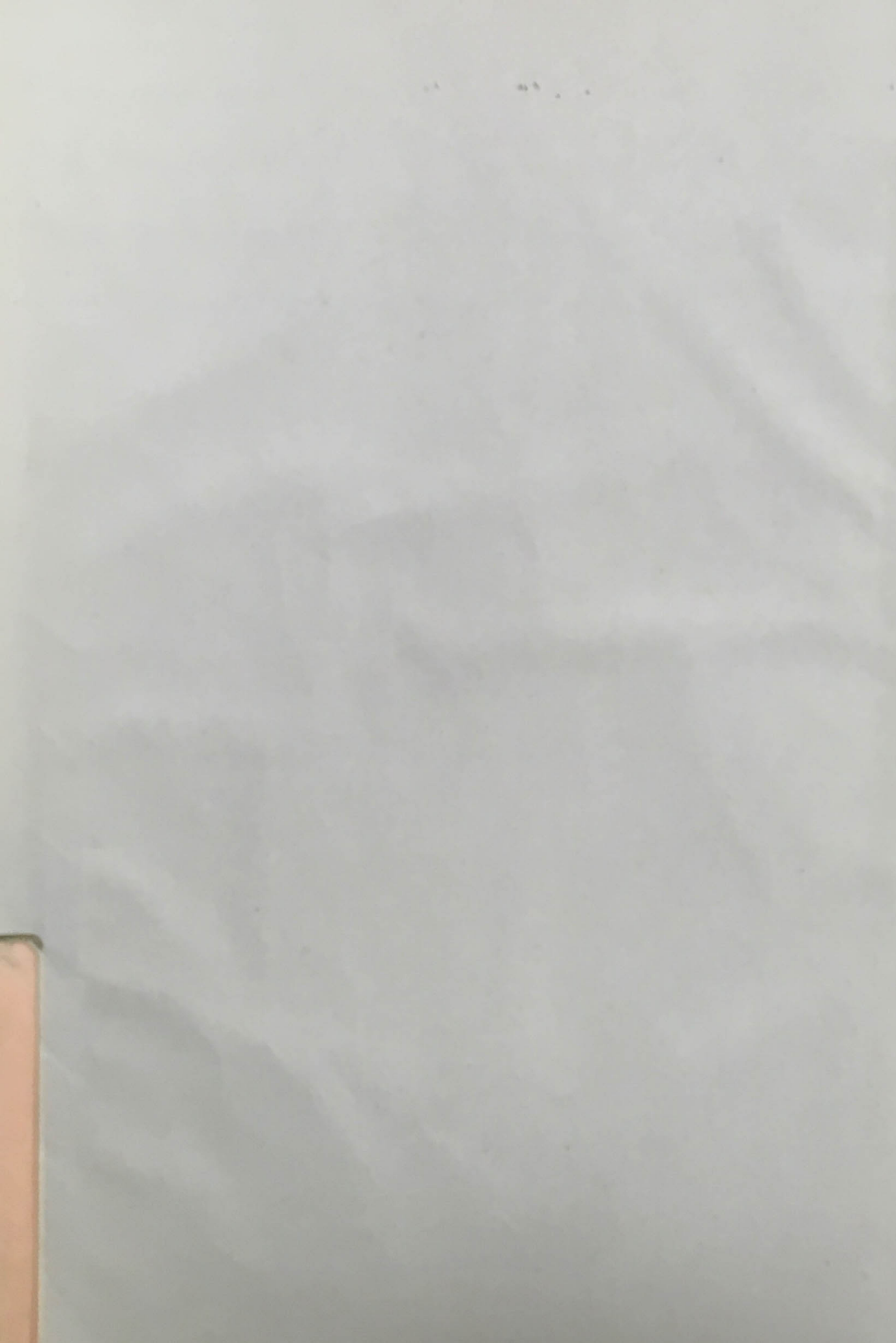
Refinery Operations, 1909-26

Redelivery Receipt, July 8, 1910, 56

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Refinery Clean-up, Oct 1911-226

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Sweeps Cellar Inventory 135

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Supplemental cost report, Aug + Sept 1911 - 246

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M I N T

Denver

Melter and Refiner's

July, 1909

Arnold, R.G.	21			Leave
"	3			Without pay
Bartlett, H.D.	21	1		Leave
Borstadt, Geo.	2	7		Without pay
"	22			Leave
"	2			Without pay
Bach, W.H.	21	3		Leave
"	2	5		Without pay
Chaffee, B.	19	2		Leave
"	4	6		Without pay
Crary, J.H.	9			Leave
"	17			Sick
Dakie, J.W.	18	4		Leave
"	5	4		Without pay
Dardis, W.N.	22			Leave
"	2			Without pay
Gray, G.B.	21	6	30	Leave
"	2	1	30	Without pay
Howard, I.	19	4		Leave
"	4	4		Without pay
Lindhard, J.A.	18			Leave
"	6			Without pay
McElroy, A.B.	14	7	30	Leave
"	9	4	30	Without pay
Morrison R.C.	21			Leave
"	3			Without pay
O'Brian, W.S.	21			Leave
"	3			Without pay
Paghe, J.J.		3	30	Leave
Schell, E.P.	14	5		"
"	9	7		Without pay
Smith, E.L.	19	3		Leave
"	4	5		Without pay
Spencer, G.H.	16	7		Leave
"	7	5		Without pay
St. John, F.	17	3	30	Leave
Stoddard, I.T.	18	1		Leave
"	5	7		Without pay
Taggart, B.H.	21	7	30	Leave
"	2		30	Without pay
Whitaker, S.R.	19	3	30	Leave
"	4	4	30	Without pay
Whitehead, I.R.	20			Leave
"	4			Without pay
Winn, H.H.	22			Leave
"	2			Without pay
Wirth, B.P.	6			Leave
"	17	4		Without pay

offense leave
(Phila. Detm.)

Mint

Denver

Melter and Refiner's

July, 1909

Arnold, B.G.	21	-----	Leave
"	3	-----	Without pay
Bartlett, H.D.	21	1 -----	Leave
"	2	7 -----	Without pay
Berstadt, Geo.	22	-----	Leave
"	2	-----	Without pay
Bush, W.M.	21	2 -----	Leave
"	2	6 -----	Without pay
Chaffee, D.	19	2 -----	Leave
"	3	6 -----	Without pay
Crary, J.H.	9	-----	Leave
"	17	-----	Sick
Dakin, C.W.	18	-----	Leave
"	5	-----	Without pay
Dardis, W.N.	22	-----	Leave
"	2	-----	Without pay
Gray, G.B.	21	6 30	Leave
"	1	30	Without pay
Howard, M.	19	4 -----	Leave
"	4	4 -----	Without pay
Lindhard, J.A.	18	-----	Leave
McElroy, A.B.	14	7 30	Leave
"	9	4 30	Without pay
Morrison, R.C.	21	-----	Leave
"	3	-----	Without pay
O'Brian, W.S.	21	-----	Leave
"	3	-----	Without pay
Pughe, J.F.		3 30	Leave
Schell, E.P.	14	5 -----	Leave
"	9	7 -----	Without pay
Smith, E.S.	19	3 -----	Leave
"	4	5 -----	Without pay
Spencer, G.N.	16	7 -----	Leave
"	7	5 -----	Without pay
St. John, F.	17	3 30	Leave
Stoddard, X.T.	18	1 -----	Leave
"	5	7 -----	Without pay
Taggart, B.H.	21	7 30	Leave
"	2	----- 30	Without pay
Whitaker, S.R.	19	3 30	Leave
"	4	4 30	Without pay
Whitehead, H.R.	19	4 -----	Leave
"	4	4 -----	Without pay
Winn, H.H.	22	-----	Leave
"	2	-----	Without pay
Wirth, B.P.	6	4	Leave
"	17	-----	Official leave (Phila. Set'm't)

Melter and Refiner's Report for July, 1909

Refinery--Not operating

Labor	\$75.30
M. & R. Gen'l	208.33
Repairs	181.39
Light & Ventil'n	0.00
Sick leave, vacation & Holidays	1442.45

Total \$1907.47

*B. P. Wirth 119.00

New Equipment 321.35

Total expense \$2347.82

Ingot room--Not operating

Labor	\$59.55
M. & R. Gen'l	208.33
Repairs	16.39
Light & Ventil'n	0.00
Sick leave &c	571.16

Total \$855.43

New Equipment 7.50

Total expense \$862.93

Sweeps Cellar--Not operating

Light & Ventil'n	\$0.00
Sick leave, &c	190.69

Total expense \$190.69

Refinery Copper Base Settlement Bullion

Fiscal Year, 1909.

Adm. Hdqrs.

1	43	2	613 00	014	007 ²	40 846	21 77
2	5	3	678 00	015	007 ²	61 300	30 65
3	5	3	686 00	023 ²	015	96 245	61 4
4	4	2	965 00	044	021 ²	144 955	83
5	5	3	115 00	033 ²	017 ²	115 947	60 56
6	3	2	060 00	025	007	57 222	16 02
<u>18 117 00</u>						<u>516 315</u>	<u>261 26</u>

Re-Assays

August 18th, 1909.

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at DENVER

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of August, 1909

GOLD.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance								
Aug. 2 19									
Received in Gold Deposits	365	588	066		Ingots				
Contained in Silver Deposits	59	255	893		Bars, Fine				
Chippings, blanks, etc.	4	827	923		Bars, Standard				
S. Lake Dep.	5	839	220		Bars, Unparted				
Seattle "	47	157	035		Bars				
G. Exchg. bars		23	937		Sweeps				
S. "		0	016						
Assayer's Remnants		49	060						
	482	741	153		Balance	August 31, 1909	19	482	741 153

SILVER.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance								
Aug. 2 19									
Received in Gold Deposits	224	926	43		Ingots				
Contained in Silver Deposits	9	288	41		Bars, Fine				
Chippings, blanks, etc.	19	946	24		Bars, Standard				
S. Lake Dep.	6	593	72		Bars, Unparted				
Seattle "	6	210	90		Bars				
G. Exchg. bars		8	31		Sweeps				
S. "		252	78						
Assayer's Rem.		15	27						
	267	242	06		Balance	August 31, 1909	19	267	242 06

August 31, 1909.

Superintendent.

J. H. Woodruff
Melter and Refiner.

Mint

Denver

Melter and Refiner's

August, 1909.

Crary, J. H.	20			Leave
"	4	4		Without pay
Pughe, J. F.	7	3	30	Leave
Schell, E. P.		1		Without pay
"		4		Sick
St. John, F.	1	1		Leave
Wirth, B. P.		7		"

MELTER AND REFINERS OF BILLYON BALANCES.

Portrait of the United States at D E N V E R

Gold and Silver Bullion Balances in the Melter and Refiners hands and Deliveries to the Superintendent of the Mint by him during the month of September, 1902.

GOLD.

STANDARD OUNCES.				STANDARD OUNCES.			
Received				Delivered			
Balance	Sept. 1 1909			Balance	Sept. 30, 1909		
Contained in Gold Deposits	482	741	153				
Contained in Silver Deposits	56	307	641				
Contained in	4	033	089				
Chippings, blanks, etc.		37	605				
Gold Exchg. bars							
Seattle Re-dep.	77	079	589				
Salt Lake "	4	730	939				
Supt. Sweeps bar		20	351				
	624	950	367				

SILVER.

[illegible]

CONJECTURE

September 30, 1899.

Superintendent.

Melter und Refiner.

Melter and Refiner's Report for August, 1909

Refinery--Not operating

Labor	\$326.04
M. & R. Gen'l	208.34
Repairs	170.90
Sick leave, vacation & holidays	194.30

Total	899.58
-------	--------

New Equipment	151.35
---------------	--------

Total expense	\$1050.93
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Ingot Room--Not operating

Labor	\$229.04
M. & R. Gen'l	208.33
Repairs	0.00
Sick leave, &c	51.54

Total	488.91
-------	--------

New Equipment	0.00
---------------	------

Total expense	\$488.91
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Sweeps Cellar--Not operating

Melter and Refiner's Report for September, 1909.

Refinery--Not operating

Labor	\$393.95
M. & R. Gen'l	201.95
Repairs	97.66
Sick leave, vacation & holidays	107.64
Total	801.20
New Equipment	440.18
Total expense	\$1241.38

Ingot Room--Not operating

Labor	\$174.70
M. & R. Gen'l	201.94
Repairs	16.38
Sick leave, &c	88.64
Total	481.66
New Equipment	0.00
Total expense	\$481.66

Sweeps Cellar--Not operating

C O N T R A C T S

1 9 1 0

DENVER FIRE CLAY CO

Crucibles, No. 80, Mint special.....	\$5.455 each
" " 14.....	.6048 "
" " 60.....	2.592 "
" " 30.....	1.296 "
" " 20.....	.864 "
" Battersea K.....	.16 "
" Battersea J.....	.15 "
No. 100 Black lead covers.....	.96 "
No. 14 " " ".....	.1344 "
Covers for No. 80 Crucibles.....	.768 "
2" rings for No. 80 Crucibles.....	.528 "
4" " " " ".....	.912 "
Cups No. 3, heavy, 31-1/2 ozs. Troy.....	.4512 "
" No. 4 " 35 ".....	.4512 "
Gold Stirrers, round Mint, special.....	1.344 "
8" Black lead Stirrers.....	.2784 "
Mercury (75 lb. flasks).....	48.94 flask
Copper Sulphate, Com'l.....	.069 lb.
Stannous Chloride CP.....	.60 lb.
Rock Salt crushed.....	10.40 ton
Potassium Carbonate Com'l.....	.078 lb.
Bar Lead CP.....	.0898 lb.
Gelatine, pure.....	.39 lb.
Magnesite.....	.06 "
Grain Alcohol.....	3.00 gal.
Wood Alcohol.....	.70 "
Pedestals S-195.....	.45 each
Quarter Slides S-170.....	.32-1/2 ea
" " S-20.....	.17-1/2 "
Furnace Bodies (A set to consist of one S-163A, two S-163B, one S-163C, S-163D, one S-163G.....	6.50 set
Tile S-163A.....	1.25 each
" S-163-B.....	1.25 "
" S-163C.....	1.25 "
" S-163D.....	.20 "
Rings S-163E, 13-1/2" inside diam.....	2.00 "
Tile S-163F, hole 13-1/2" diam.....	1.20 "
Top Tile S-163G.....	1.50 "
Fire Brick, Standard No. 1.....	21.00 M.
Fire Brick Splits.....	22.00 "
Fire Brick Soaps.....	30.00 "
Hood Tile S-41B Rights No. 2935.....	.64 each
" " S-41C Lefts " 2936.....	.64 "
" " S-41A Tops " 2934.....	.48 "

Tile S-41D BP No. 2937.....	.65	each
" S-41E " " 2938.....	.65	"
Furnace Tile S-136A.....	1.00	"
" " S-136B.....	1.00	"
" " S-136C.....	1.00	"
Acetic Acid Com'l 30%.....	.10	lb.
Hydrochloric Acid Com'l 22 deg. BE.....	.01625	lb.
Nitric Acid Com'l fr. from chlorine 38 BE.....	.07875	"
Oxalic Acid Com'l.....	.12	lb.
Hydrogen Peroxide.....	.24	"
Iron Sulphate, Com'l.....	.0144	lb.
Zinc Slab.....	.09	lb.
Sodium Carbonate CP anhydrous.....	.18	"
Sodium Metallic.....	.72	"
Hydrochloric Acid, CP sp. grade 1.20.....	.06375	lb.
Nitric Acid CP sp. gr. 1.42.....	.09875	"
Nitric Acid, fuming, CP sp.gr. 1.60.....	.49	"
Sulphuric Acid CP sp.gr. 1.845.....	.06375	"
Bone Ash XX.....	.0298	"
Borax glass (for assaying).....	.1039	"
Silver Nitrate.....	6.00	"
Borax glass ground.....	.1039	"
Bicarbonate of Soda.....	.0218	"
Charcoal MXX for gold.....	.04	"
" MBXX for silver.....	.03	"
" Granular.....	.0725	"
Silica.....	.01	"
Precipitating Jars, with lip 2 gal cap....	2.00	each
China Pitchers, 6 pint.....	4.50	doz.
" " 8 ".....	6.50	"
Earthenware Pitchers, 4 gal.....	2.00	each
Soup Plates, 8" and 10".....	1.20	doz.
Brass Wire Screen 20 mesh, 36 x 100.....	.25	sq.ft.
" " 30 " 36 x 120.....	.26	" "
" " 40 " 36 x 120.....	.29	" "
Tin Pans, Seamless 8".....	.50	doz.
Respirators (covers).....	.97	each

JOSLIN DRY GOODS CO.

Cheesecloth, Bleached.....	.06	yard
" Unbleached.....	.04-1/2	yard
Sheeting, 10/4 wide unbleached.....	.25	yard
Asbestos covered Aprons.....	3.80	each
" Mitts.....	.90	"
" covered Sleeves.....	1.00	"
Carpet Mitts.....	.40	"

4

CONTINENTAL OIL CO.

First Distillate Fuel Oil.....	\$0.06 gal.
--------------------------------	-------------

DENVER DRY GOODS CO.

Vaseline, White, 1 lb. tins.....	4.80 doz.
Water Buckets, galvanized Iron, 12 qt...	2.00 "
" " " " 14 "...	2.20 "
Water Buckets, Fibre, 12".....	3.25 "
Furnace Brushes.....	5.50 "

U. S. MINT SERVICE,
FORM NO. 210,
Ed. 6 10 1903 500.-8 x 10 1/2.

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at DENVER, COLO.

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of October, 19 09.

GOLD.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Contained in Gold Deposits	Contained in Silver Deposits			Ingots	Bars, Fine	Bars, Standard	Bars, Unparted
Oct. 1, 1909									
Balance	624	950	567		Balance	October 30, 1909	19	736	338 645
Contained in Gold Deposits	64	776	763					736	338 645
Contained in Silver Deposits	3	694	077						
Contained in	38	207	021						
Seattle Dep.	4	655	870						
Salt Lake "		48	796						
G. Exchg. bars		5	751						
S. "									

SILVER.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Contained in Gold Deposits	Contained in Silver Deposits			Ingots	Bars, Fine	Bars, Standard	Bars, Unparted
Oct. 1									
Balance	305	008	12		Balance	October 30, 1909	19	339	587 15
Contained in Gold Deposits	10	323	26					339	587 15
Contained in Silver Deposits	17	918	33						
Contained in	5	554	02						
Seattle Dep.		669	45						
Salt Lake "		14	04						
G. Exchg. bars		99	93						
S. "									

CORRECT

October 30, 1909.

Superintendent.

John W. Milburn
Melter and Refiner.

Mint

Denver

Melter and Refiner's

,Oct., 1909

Hetrich, J.M.	26		Leave
Lindhard, J. A.	4		Without pay
Pughe, J. F.	19		Leave
St.John, F.	2	1	"
Wirth, B.P.		3	"
Arnold, R.G.			On Furlough
Bartlett, H.D.			"
Borstadt, Geo.			"
Bush, Wm.M.			"
Chaffee, D.			"
Crary, J.H.			"
Gray, G.B.			"
Howard, M.			"
McElroy, A.B.			"
O'Brian, W.S.			"
Stoddard, X.T.			"
Spencer, G.N.			"
Smith, E.S.			"
Taggart, B.H.			"
Winn, H.H.			"
Whitaker, S.R.			"
Whitehead, H.R.			"

Melton and Refiner's Report for October, 1939.

Refinery--Not operating

Labor	\$344.90
M. & R. Gen'l	125.00
Repairs	306.69
Incidentals	0.75
Sick leave, vacation & holidays	139.93

Total	917.27
-------	--------

New Equipment	501.64
---------------	--------

Total expense	\$1418.91
---------------	-----------

Ingbt room--Not operating

Labor	\$126.03
M. & R. Gen'l	125.00
Repairs	0.00
Sick leave, etc.	137.30

Total	388.33
-------	--------

New Equipment	0.00
---------------	------

Total expense	\$388.33
---------------	----------

Sweeps cellar--Not operating

U. S. MINT SERVICE,
FORM NO. 219.
Ed. 8 10 1903 500.—8 x 10½

MELTER AND REFINERS OF BULLION BALANCES

Point of the United States at DENVER

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of November, 1909.

GOLD

[illegible]

SHYER

[illegible]

November 30, 1909.

направление

Goldmildern
Möller und Rappert
3 u. J.

Mint

Denver

Melter and Refiner's

of Nov., 1909

Arnold, R.G.

3

Sick

O'Brian, W.S.

2

Without pay

Pughe, J.F.

24

" "

Spencer, G.N.

2

" "

St. John, F.

4

Leave

Wirth, B.P.

5

"

Stoddard, X.T.

5

Without pay
On Furlough

Chaffee, D.

"

Howard, M.

"

McElroy, A.B.

"

Smith, E.S.

"

Whithead, H.R.

Nov/09

REFINERY

1. Product:	a. Gold	144,590.49	fine	ozs.
	b. Silver	72,849.75	"	"
	Total	217,440.24	"	"

2. Costs:	a. Labor	\$2,113.12
	b. Crucibles	100.00
	c. Acids	480.52
	d. Supplies	141.81
	e. Mitts, gloves, aprons	81.85
	f. Chemicals	5.00
	g. Sweeps cellar	0.00
	h. M. & R. General	277.78
	i. Fuel	140.70
	j. Power	631.55
	k. Repairs	234.26
	l. Light, ventilation	85.89
	m. Incidentals	11.30
	n. Assays	266.76
	o. Sick leave, vacation & holidays	18.82
	p. 1/8 shut-down expense	565.69
		5,134.85

3. New Equipment	187.12
Total expense	\$5,321.97

4. Fine bullion, .992 and over, deposits, no charges	5,961.93
5. Assayers, Supt.'s, Coiners, settlement bars, etc., no charges	119,175.93

6. Crude Bullion at	3¢	11.35
	7	124.05
	6-1/2	447.69
	6	497.07
	5-1/2	680.49
	5	8,119.09
	4-1/2	1,431.32
	4	228,995.93
	3-1/2	665.39
	3	1,060.74
	2-1/2	1,144.39
	2	45,461.27
	1-1/2	1,091.71
	1	90,939.14
	3/4	4,409.67
	1/2	39,166.35
	4/10	208.60
	3/10	109.53
		421,694.88

Total amount operated upon	546,832.74
----------------------------	------------

7. Cost per ounce total operated upon	.009390
8. Average	.012176
9. Cost per crude ounce	
10. Average	

INGOT ROOM -- Not operating	Labor	\$130.00
	M. & R. Gen'l	138.89
	Total	\$268.89

SWEEPS CELLAR -- Not operating

U. S. MINT SERVICE.
FORM NO. 219
Ed. 6 to 1903 100-8 x 10 1/2

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at Denver, Colorado

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of December 1909.

GOLD.

Received	Edm.	STANDARD OUNCES.				Delivered	Edm.	STANDARD OUNCES.			
		Dec. 1	19					Dec. 31, 1909	19		
Continued in 660 Deposits		855	690	444		Ingots		933	460	445	
Continued in Silver Deposits		56	525	724		Bars, Fine		933	460	445	
Continued in		3	678	806		Bars, Standard		933	460	445	
						Bars, Unpurged					
						Bars					
						Sweeps					
Seattle Re-dep.		13	109	651							
Salt Lake "		4	313	650							
Ref'y Expt.			58	504							
Dakin recovery bar			24	385							
Supt. Sweeps bar			16	040							
G. & S. Exchg. bars			43	241							
		933	460	445		Balance		933	460	445	

SILVER.

Received	Edm.	STANDARD OUNCES.				Delivered	Edm.	STANDARD OUNCES.			
		Dec. 1	19					Dec. 31, 1909	19		
Continued in Gold Deposits		380	016	56		Ingots		409	722	66	
Continued in Silver Deposits		8	479	38		Bars, Fine		409	722	66	
Continued in		13	325	29		Bars, Standard					
						Bars, Unpurged					
						Bars					
						Sweeps					
Seattle Re-dep.		1	814	35							
Salt Lake "			962	00							
Dakin recovery bar			1	66							
Supt. Sweeps bar			7	09							
G. & S. Exchg. bars			116	23							
		409	722	66		Balance		409	722	66	

December 31 1909.

Superintendent.

J. C. Williams
Melter and Refiner
227

M i n t

Denver, Colorado

Melter and Refiner's

, Dec., 1909.

Bartlett, H.D.	1		Sick
Bush, W.M.		1	Leave
Morrison, R.C.		4	Without pay
Schell, E.P.		4	" "
Spencer, G.N.		1	" "
St. John, F.		3	30 Leave
Stoddard, X.T.		1	Without pay
Wirth, B.P.		5	Leave
Chaffee, D.			On furlough
Howard, M.			"
McElroy, A.B.			"
Pughe, J.F.			On Furlough (sick)
Smith, E.S.			On Furlough
Whitehead, H.R.			"

Dec./09

		REFINERY	
1. Product:	a. Gold	159,111.43	fine ozs.
	b. Silver	100,227.20	" "
	Total	259,338.63	" "

2. Costs:	a. Labor	\$2,151.18
	b. Crucibles	100.00
	c. Acids	624.67
	d. Supplies	157.56
	e. Mitts, gloves, aprons	72.33
	f. Chemicals	10.00
	g. Sweeps cellar	0.00
	h. M. & R. Gen'l	277.90
	i. Fuel	158.10
	j. Power	735.63
	k. Repairs	280.80
	l. Light & Ventl'n	107.99
	m. Incidentals	17.10
	n. Assays	340.64
	o. Sick leave etc.	11.66
	p. 1/2 shut-down exp.	565.69
		<u>\$5,611.75</u>
3. New Equipment		246.78
	Total expense	<u>\$5,858.53</u>

4. Fine bullion, .992 & over, deposits	790.04
" " " " " mint fine silver	30,400.00

5. Assayer's, Supt.'s, Set'm't & other bars, no charges	127,550.73
---	------------

6. Crude bullion at 3/10 ¢	499.42	
1/2	9,449.69	
1	13,448.39	
1-1/2	49.13	
2	10,313.50	
2-1/2	697.87	
3	1,987.32	
3-1/2	4,350.13	
4	157,459.66	
4-1/2	7,334.72	
5	5,576.42	
5-1/2	181.96	
6	120.19	
6-1/2	2,170.49	
7	84.24	
7-1/2	19.00	
8	143.28	
		<u>213,885.41 crude ozs.</u>

Total operated upon 372,626.18

7. Cost per ounce, total operated upon	.015059
8. Average cost, ditto	.011687
9. Cost per crude ounce	.026237
10. Average cost, ditto	.016908

INGOT ROOM -- Not operating

Labor	\$135.00
Incidentals	1.50
M. & R. Gen'l	138.77
Total	<u>\$275.27</u>

SWEEPS CELLAR -- Not Operating

Ref'y
Silver
Set'm't
1908-'09

27 6 1 609 05 184² 487² 329 855 871 56

Above remelted to 6 bars; one granulation sample to each bar; six
in all. Re-assays by two weighers.

		<u>Au.</u>		<u>Ag.</u>	
Sample	A	189	187.5	478.5	473.5
"	B	186	179	479	469.6
"	C	179.4	189.3	472.6	473.7
"	D	189.3	184.4	474.7	473.6
"	E	174.6	184	469.4	477.5
"	F	180	187.8	471	474.2
		1098.3	1092.0	2845.2	2842.1
		<u>1098</u>		<u>2842.1</u>	
12)		<u>2190.3</u>		12) <u>5687.3</u>	
		182.5		473.9	

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Refinery Operations, Denver Mint, Fiscal Year, 1909.

	<u>GOLD BULLION</u>	<u>STD. OZS.</u>
<u>Sent to refinery:</u>		
Bullion, no charges,.....	192,689.779	
Crude bullion, with charges....	1,850,305.976	
Total,.....		2,042,995.755
<u>Returned from refinery:</u>		
Fine Gold,.....	1,974,316.107	
Settlement metal,.....	69,279.334	
Total,.....		2,043,595.441
Surplus,.....		599.686

	<u>SILVER BULLION</u>	<u>STD. OZS.</u>
<u>Sent to refinery:</u>		
Bullion, no charges,.....	1,237,811.06	
Crude bullion, with charges,..	601,793.56	
Total,.....		1,839,604.62
<u>Returned from refinery:</u>		
Mint fine silver,.....	1,728,603.44	
Settlement metal,.....	110,743.41	
Total,.....		1,839,346.85
Wastage,.....		257.77

U. S. MINT SERVICE
Form No. 210
Ed. 6-10-1903 (100-8 x 10 1/2)

MELTER AND REFINERS OF BULLION BALANCES:

Mint of the United States at Denver

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of January, 1910.

GOLD.

Received	STANDARD OUNCES				Delivered	STANDARD OUNCES			
	Balance	Cont'd in Gold Deposits	Cont'd in Silver Deposits	Cont'd in Clippings, blanks etc.		Ingois	Bars, Fine	Bars, Standard	Bars, Unpacked
Jan. 3 1910	933	460	445			181	724	770	
	65	484	450						
	3	809	831						
Salt Lake Dep.	5	425	542						
	64	610	890						
Cond. Coin	1	760	940						
Gold Exchg. bars		55	010						
Silver " bar		2	560						
Balance Jan. 31, 1910	1 074	899	668			583	874	888	

SILVER.

Received	STANDARD OUNCES				Delivered	STANDARD OUNCES			
	Balance	Cont'd in Gold Deposits	Cont'd in Silver Deposits	Cont'd in Clippings, blanks etc.		Ingois	Bars, Fine	Bars, Standard	Bars, Unpacked
Jan. 3 1910	409	722	66			12	517	60	
	8	948	38						
	18	527	53						
Salt Lake Dep.	1	317	91						
Cond. Coin	4	095	10						
Gold Exchg. bars		19	16						
Silver " bar		113	00						
Balance Jan. 31, 1910	443	743	76			420	820	19	

February 1 1910.

Superintendent. J. C. Williams
Melter and Refiner

MELTER AND REFINER'S OPERATIONS.

Mint of the United States
 at Denver, Colorado February 1st, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of January, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TAPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	302.837.76	290.750.16	11.975.18		112.42	17.04	95.38
Gold Bars,							
TOTAL,	302.837.76	290.750.16	11.975.18		112.42	17.04	95.38
Silver Ingots,	12.756.21	12.517.60	232.68		5.93	11.79	5.86
Silver Bars,							
TOTAL,	12.756.21	12.517.60	232.68		5.93	11.79	5.86

I certify the above to be a correct statement.

Approved:

James Milson
 Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Mint
Melter and Refiner's

Denver

January

16.

Arnold, R.G.	-	-	-	Good	Good
Barlett, H.D.	-	-	-	"	"
Berstadt, G.	-	-	-	"	"
Bush, W.M.	-	-	-	"	"
Crazy, J.H.	-	-	-	"	"
Dardie, W.N.	-	1	-	"	"
Gray, C.B.	-	-	-	"	"
Hettrich, J.M.	-	3	-	"	"
Howard, E.	-	-	-	"	"
Lindhard, J.A.	-	1	-	"	Excel'n
Lundin, A.H.	-	-	-	"	Good
Morrison, R.C.	1	-	-	"	"
O'Brian, W.S.	-	-	-	"	"
Schell, E.P.	-	-	-	"	Excel'nt
Smith, E.S.	-	-	-	"	Fair
Spencer, G.N.	-	-	-	"	"
St. John, F.	-	2	-	"	Good
Stoddard, X.T.	-	5	30	"	"
Taggart, B.H.	-	-	-	"	Excel'nt
Whitaker, S.R.	-	-	-	"	"
Winn, H.H.	-	-	-	"	Good
Wirth, E.P.	-	-	-	"	"
	-	-	-	"	Excel'nt

Earnings of United States Mints, as taken from the Directors' reports, under the sub-heading of "Deposit Melting room grains and sweepings," and the value of deposits received by the Mints as taken from said reports.

	<u>Year</u>	<u>Earnings</u>	<u>Value of Deposits rec'd</u>
Philadelphia	1906	31,481.56	340,048,955.22
San Francisco	1906	793.36	38,252,571.78
Denver	1906	7,984.90	26,171,122.24
Philadelphia	1907	1,343.83	65,710,852.75
San Francisco	1907	567.56	72,140,231.80
Denver	1907	5,262.07	26,484,865.34
Philadelphia	1908	2,554.06	112,309,231.69
San Francisco	1908	872.43	71,565,673.05
Denver	1908	5,970.91	19,215,309.68
Philadelphia	1909	1,834.25	33,518,320.98
San Francisco	1909	1,543.11	51,705,551.33
Denver	1909	1,063.96	36,418,361.88

Jan/10

REFINERY

1. Product: Gold	151,205.30	fine	ozs.
Silver	18,462.90	"	"
Total	169,668.20	"	"

2. Costs:

a. Labor	\$2000.07
b. Crucibles	108.00
c. Acids	569.04
d. Supplies	190.52
e. Mitts, gloves, aprons	68.08
f. Chemicals	10.00
g. Sweeps cellar	190.63
h. M. & R. Gen'l	277.73
i. Fuel	155.70
j. Power	564.15
k. Repairs	370.82
l. Light & Ventilation	90.00
m. Incidentals	8.20
n. Assays	320.03
o. Sick leave, vacation & holidays	9.59

\$4932.61

3. New Equipment

79.10

Total expense

\$5011.71

4. Deposits, bullion .992 and over	15.19
Mint fine silver, ditto	88,800.00

5. Assayers, Supt.'s, Sweeps and other bars, no charges	97,311.41
--	-----------

6 Crude bullion at 1/2¢	8,670.58	
1	23,033.98	
1-1/2	6,293.40	
2	6,022.30	
2-1/2	1,368.46	
3	20.89	
4	181,940.05	
4-1/2	1,680.90	
5	2,856.16	
5-1/2	2,524.11	
6	14.11	
	234,424.94	(total crude)

Total operated upon

420,551.54

7. Cost per ounce, total operated upon	.011728
--	---------

8. Average " " " " "	.010856
----------------------	---------

9. Cost per crude ounce	.021041
-------------------------	---------

10. Average " " "	.016721
-------------------	---------

Amount bullion melted: Gold 303,837.78
 Silver 12,756.21
 Total 315,593.97

2. Amount of good ingots: Eagles 290,750.16
 Q.Dollars 12,517.60
 Total 303,267.76

	Gold		Silver		Total
	Total	Per oz.	Total	Per oz.	
a. Labor	\$368.17	.001266	15.34	.001225	383.51
b. M. & R. Gen'l	133.33	.000458	5.55	.000443	138.88
c. Mitts, gloves	6.23	.000021	.00	.000000	6.23
d. Crucibles	16.59	.000087	.00	.000000	16.59
e. Sweeps cellar	25.98	.000089	1.08	.000086	27.06
f. Supplies	23.94	.000082	.40	.000031	24.34
g. Fuel	44.40	.000152	1.80	.000143	46.20
h. Power	53.19	.000182	2.21	.000176	55.40
i. Light & Vent.	19.20	.000066	.80	.000063	20.00
j. Repairs	14.93	.000051	.62	.000049	15.55
k. Incidentals	6.10	.000020	.25	.000019	6.35
l. Sick lv. &c.	1.00	.000005	.00	.000000	1.00
m. Alloy copper	232.31	.000799	2.51	.000200	234.82
Totals	\$945.97	.003253	30.56	.002441	976.53

4. New Equipment 0.00

Total expense \$976.53

5. Percentage of good ingots: Gold 96.
 Silver 98.1

6. Average cost of ingots for fiscal year: Gold .003253
 Silver .002441

7. Cost distributed as follows: Eagles \$945.97
 Quar. Dollars 30.56
 Total \$976.53

SWEEPS CELLAR

1. Product: Gold, std. ozs. 101.66
 Silver " " 70.72
 Tailings, avoird. lbs. 8,116

2. Costs: a. Labor \$112.50
 b. Power 25.12
 c. Light & Vent. 29.10
 d. Supplies 15.48
 e. Repairs 55.49
 f. Incidentals 0.00
 g. Sick lv. &c. 0.00
 Total 217.69

3. New Equipment 5.80
 Total expense \$223.49

4. Tailings contained: Gold, std. ozs. 21.86
 Silver " " 48.74

5. Percentage of extraction: Gold 82.3
 Silver 59.1

6. Departments charged as follows: Refinery \$190.63
 Ingot room 27.06
 Total \$217.69

U. S. MINT SERVICE,
FORM NO. 219.
Ed. 6 10 1903 500.—8 x 10 1/4.

MELTER AND REFINERS OF BULLION BALANCES

Print of the United States at D e n v e r

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of February 1910.

GOLD.

[illegible]

SHIVER

STANDARD OUNCES.					
Received					
Balance					
Contained in Gold Deposits					
Contained in Silver Deposits					
Verified in					
Gold Deposits					
Feb. 1	18	430	226	16	
		7	608	96	
		18	682	95	
G. Frohgs. bars			26	80	
Salt Lake Dep.	1		160	07	
Seattle "	1		012	80	
		456	662	74	
<hr/>					
Delivered					
Ingot's					
Bars, Fine					
Bars, Standard					
Bars, Unperf'd					
Bars					
Sweeps					
Balance Feb. 28, 1910	18				
		456	662	74	
		456	662	74	

Superintendent.

March 1 1970

Seitwilem
Witber und Refner
35.

MELTER AND REFINER'S OPERATIONS.

Print of the United States

At Denver Colorado, March 1st, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of February, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.		RECOVERY.						
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEERS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots.	289,544.15	279,006.94	10,434.70		102.51		23.12	79.39	
Gold Bars.	553.88	553.88							
TOTAL,	290,098.03.	279,560.82	10,434.70		102.51		23.12	79.39.	

I certify the above to be a correct statement.

Approved:

Superintendent.

Secord
Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

M int

Denver

Melter & Refiner's

February

10.

1 Arnold, R.G.	2	2	-	Good	Good
2 Bartlett, H.D.	1	-	-	"	"
3 Borstadt, Geo.	-	-	-	"	"
4 Bush, W.M.	-	2	30	"	"
5 Crary, J.H.	-	-	-	"	"
6 Dardie, W.N.	-	-	-	"	"
7 Gray, G.B.	-	2	-	"	"
8 Hetrish, J.M.	-	-	-	"	Excel'nt
9 Howard, M.	-	1	30	"	Good
10 Lindhard, J.A.	-	1	30	"	"
11 Dundin, A.H.	-	-	-	"	"
12 Morrison, R.C.	-	2	30	"	Excel'nt
13 O'Brian, W.S.	-	3	-	"	Fair
14 Schell, E.P.	-	7	30	"	"
15 Smith, S.S.	-	1	30	"	Good
16 Spencer, G.F.	-	2	-	"	"
17 St. John, F.	-	6	30	"	Excel'nt
18 Stoddard, X.T.	-	2	-	"	"
19 Taggart, E.H.	-	-	-	"	Good
20 Whitaker, S.R.	-	2	-	"	"
21 Winn, H.H.	-	2	-	"	"
22 Wirth, B.P.	-	3	30	"	Excel'nt

Feb/10

REFINERY

1. Product: Gold	142,394.25	fine	ozs.
Silver	65,628.15	"	"
Total	208,022.40	"	"

2. Costs:	
a. Labor	\$1,737.24
b. Crucibles	108.00
c. Acids	476.73
d. Supplies	167.76
e. Mitts, gloves, aprons	59.11
f. Chemicals	10.00
g. Sweeps cellar	6.81
h. M. & R. Gen'l	273.52
i. Fuel	138.90
j. Power	535.32
k. Repairs	227.30
l. Light & ventil'n	80.00
m. Incidentals	24.70
n. Assays	175.10
o. Sick leave, etc.	105.65
	<u>4,126.14</u>

3. New Equipment	52.95
Total	<u>\$4,179.09</u>

4. Deposits--bullion, .992 and over	668.00
Mint fine silver	65,650.00
5. Assayers, sweeps and other bars--no charges	45,706.99

6. Crude bullion at 1/2¢	6,640.85
1	10,463.43
2	5,774.62
2-1/2	57.05
4	127,722.11
4-1/2	139.74
5	41.57
6	7,527.84
6-1/2	1,103.02
7	7.04
7-1/2	1,827.72
8	<u>24.63</u>

161,329.62 total crude

Total operated upon 273,354.61

7. Cost per ounce total operated upon .015094

8. Average " " " " " .011574

9. Cost per crude ounce .025575

10. Average " " " " " .018106

Feb/10

INGOT ROOM

1. Amount bullion melted: Gold 289,544.15
 2. Amount of good ingots: Eagles 279,006.94

3. Cost of Ingots:

	Amount	Cost per oz.
a. Labor	\$341.86	.001235
b. M. & R. Gen'l	136.76	.000490
c. Mitts & Gloves	4.62	.000016
d. Crucibles	13.82	.000049
e. Sweeps cellar	0.00	.000000
f. Supplies	18.94	.000067
g. Fuel	40.20	.000144
h. Power	52.58	.000188
i. Light & Ventilation	15.00	.000053
j. Repairs	28.90	.000103
k. Incidentals Incidentals	0.00	.000000
l. Sick leave, vacation & holidays	22.58	.000080
m. Alloy copper	196.17	.000703
Totals	<u>871.43</u>	<u>.003123</u>

4. New Equipment 9.00
 Total expense \$880.43

5. Percentage of good ingots, 96.3

6. Average cost of ingots for fiscal year, Gold .003189
 " " " " " " Silver .002441

7. Cost distributed--all to Eagles

SWEEPS CELLAR

1. Product: Gold, std. ozs. 161.94
 Silver " 489.78
 Tailings, avoird. lbs. 9,146

2. Costs: a. Labor \$102.66
 b. Power 22.18
 c. Light & Ventil'n 14.68
 d. Supplies 6.59
 e. Repairs 0.30
 f. Incidentals 0.00
 g. Sick leave, etc. 5.34
151.75

3. New Equipment 0.00
 Total expense \$151.75

4. Tailings contained: Gold, std. ozs. 31.70
 Silver " 388.09

5. Percentage of extraction: Gold 83.6
 Silver 55.7

6. Departments charged as follows:
 Deposit Melting Room \$144.94
 Refinery 6.81
 Total \$151.75

U. S. MINT SERVICE.
FORM NO. 29
Ed. 6 to 1003300.-8 x 10 1/2.

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at Denver

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of March, 1910.

GOLD.

RECEIVED				DELIVERED			
Balance		Standard Ounces		Ingot		Standard Ounces	
Mch. 1 1910		765	173	496		389	137
Contained in Gold Deposits		63	210	613			720
Contained in Silver Deposits		4	189	981			
Contained in		3	087	083			
Clippings, blanks, etc.		91	065	480			
S. Lake Dep.							
G. Exchg. bars			79	813			
S. "			5	665			
D. M. R. Swps - 3d Qr.			111	796			
Balance		926	923	827		537	786
Mch. 31, 1910						926	923
							827

SILVER.

RECEIVED				DELIVERED			
Balance		Standard Ounces		Ingot		Standard Ounces	
Mch. 1 1910		458	662	74		489	354
Contained in Gold Deposits		8	197	60			23
Contained in Silver Deposits		21	892	04			
Contained in			108	87			
S. Lake Dep.							
G. Exchg. bars			35	27			
S. "			384	93			
D. M. R. Swps			72	78			
Balance		489	354	23		489	354
Mch. 31, 1910						489	354
							23

CORRECT

April 1 1910.

Superintendent.

William
Melter and Refiner.

U. S. MINT SERVICE.
FORM NO. 65.
Ed. Oct. 22-08-500-8 x 10 1/2

MELTER AND REFINER'S OPERATIONS.

Unit of the United States

At *Denver, Colorado*, *April 1st*, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of *March*, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOWNS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPERS, METAL WASTING.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	341,604.07	828,569.22	12,844.18		190.70	83.62	81.14
Gold Bars,							25.94
TOTAL,							
Silver Ingots,	<i>none</i>					73.52	2.83
Silver Bars,							76.35
TOTAL,							

I certify the above to be a correct statement.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Revermann
Melter and Refiner.

Mint	Denver			March		10.
Melter & Refiner's						
Arnold, R.G.	-	-	-	100	90	
Bartlett, H.D.	-	-	-	100	90	
Berstadt, Geo.	3	1	-	100	94	
Bush, W.M.	-	-	-	100	88	
Crary, J.H.	-	-	-	100	86	
Dardis, W.H.	-	-	-	100	90	
Gray, G.B.	-	-	-	100	85	
Hetrich, J.H.	-	-	-	100	100	
Howard, M.	-	-	-	100	88	
Lindhard, J.A.	-	-	-	100	90	
Mandin, A.H.	-	-	-	100	90	
Merriam, R.C.	-	3	-	100	100	
O'Brien, W.S.	5	-	-	100	90	
Schell, E.P.	-	3	15	100	85	
Smith, E.S.	-	-	-	100	90	
Spencer, G.H.	2	-	-	100	sick	90
"	-	1	-			
St. John, F.	2	-	-	100	sick	100
"	2	1	-			
Stoddard, X.T.	-	-	-	100	95	
Taggert, B.H.	-	-	-	100	90	
Whitaker, S.R.	2	-	-	100	sick	90
Winn, H.H.	2	-	-	100	"	90
Wirth, E.P.	-	-	-	100	100	

March 1910

		<u>REFINERY</u>		
1. Product:	Gold		153,895.19	fine ozs.
	Silver		41,491.00	" "
	Total		195,386.19	" "
2. Costs:				
a. Labor		\$1,973.76		
b. Crucibles		70.91		
c. Acids		469.49		
d. Supplies		155.85		
e. Mitts, gloves, aprons		63.61		
f. Chemicals		15.00		
g. Sweeps cellar		48.25		
h. M. & R. Gen'l		277.78		
i. Fuel		149.10		
j. Power		512.84		
k. Repairs		165.05		
l. Light & ventilation		90.00		
m. Incidentals		11.55		
n. Assays		165.98		
o. Sick leave, vacation & holidays		72.14		
p. 1/8 shut-down expense		565.69		
	Total	4,806.98		
3. New Equipment		92.38		
	Total expense	\$4,899.36		
4. Deposits--	Bullion .992 and over		143.00	
	Mint fine silver		77,800.00	
5. Assayers, sweeps & other bars, no charges			82,289.76	
6. Crude bullion at	1/2 cent	6,212.13		
	3/4	267.92		
	1	20,310.43		
	2	4,025.65		
	2-1/2	27.55		
	3	15.08		
	3-1/2	33.22		
	4	134,117.66		
	4-1/2	67.19		
	5	114.35		
	5-1/2	26.98		
	6	5,999.25		
	6-1/2	2,847.72		
	7	61.05		
	7-1/2	992.22		
	Total operated upon		175,118.40	total crude
			335,351.16	
7. Cost per oz. total operated upon			.014334	
8. Average " " " "			.013210	
9. Cost per crude oz.			.027449	
10. Average " " " "			.021338	

Mch/10

INGOT ROOM

1. Amount bullion melted, all gold	341,604.07
2. Amount of good ingots, Eagles	328,569.22
3. Cost of Ingots	
a. Labor	\$395.01
b. M. & R. Gen'l	138.89
c. Mitts & gloves	3.72
d. Crucibles	17.38
e. Sweeps cellar	144.75
f. Supplies	15.25
g. Fuel	46.20
h. Power	56.05
i. Light & ventilation	16.07
j. Repairs	21.33
k. Incidentals	.75
l. Sick leave, &c	9.43
m. Alloy copper	218.07
Total	1082.80
4. New Equipment	3.50
Total expense	\$1086.30
5. Percentage of good ingots-- Gold	96.1
6. Average cost of ingots for fiscal year: Gold	.003228
Silver	.002441
7. Cost distributed--all to Eagles	

SWEEPS CELLAR

1. Product: Gold std. ozs.	166.81	
Silver " "	271.06	
Tailings avoir. lbs.		16,805
2. Costs:		
a. Labor	\$121.50	
b. Power	41.04	
c. Light & Ventilation	16.07	
d. Supplies	7.54	
e. Repairs	6.50	
f. Incidentals	.35	
g. Sick leave, &c	.00	
Total	\$193.00	
3. New Equipment	17.65	
Total expense	\$210.65	
4. Tailings contained std. ozs. of Gold	71.97	
" " " Silver	426.19	
5. Departments charged as follows:		
Refinery	\$48.25	
Ingot room	144.75	
Total	\$193.00	

Mint of the United States at Denver

FIRE TILE -- M. & R. Department

1 Tile 163 A (draft vent))	
2 " 163 B	)	Furnace
1 " 163 C (fuel intake)	)	Body
1 " 163 D (tuyre block)	)	Complete
1 " 163 G (top slab))	
1 Tile S 41 A Top #2934	)	Hood
1 " S 41 B Left Hand #2936	)	Lining
1 " S 41 C Right " #2935	)	Complete
1 Tile S 41 D Right)	
1 " S 41 E Left	)	Refinery Arch Tile

S 195 Base Tile

S 170 Ingot Quarter Slide

S 20 Refinery " "

DEPOSIT ROOM TILE

S 69 Deposit Base Tile

1 Tile S 136 A	)	Body for #20 & #30 Furnaces
2 " S 136 B	)	Deposit
1 " S 136 C	)	Room

S 56 A (9-1/4" hole) Top slab #20 furnace, Deposit room

S (9-1/4" hole) Iron bound ring #20 furnace

S 56 E (10-1/2" hole) Top slab #30 furnace, Deposit room

S (10-1/2" hole) Iron bound ring #30 furnace

S 163 F (13-1/2" hole) Top slab #60 furnace

S 163 E (13-1/2" hole) Iron bound ring #60 furnace

4/15/1910

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at D e n v e r

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the
 Superintendent of the Mint by him during the month of April , 19 10.

GOLD.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance			Ingots			
Contained in Gold Deposits				Bars, Fine			
Contained in Silver Deposits				Bars, Standard			
Contained in				Bars, Unparted			
Clippings, blanks, etc.				Bars			
				Sweeps			
April 1 st	537	786	107			293	231 490
	60	474	486				
	5	010	130				
S. Lake Re-dep.	1	497	115				
	84	877	100				
Con'd coin	1	009	250				
G. Exchg. bars		88	909				103 687
S. "		5	448				
				Balance April 30, 1910	10	397	413 368
	690	748	545			690	748 545

SILVER.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance			Ingots			
Contained in Gold Deposits				Bars, Fine			
Contained in Silver Deposits				Bars, Standard			
Overlaid in				Bars, Unparted			
				Bars			
				Sweeps			
April 1 st	489	354	23				
	8	511	93				
	31	675	62				
S. Lake Re-dep.		796	52				
G. Exchg. bars		25	02				814 29
S. "		100	14				
				Balance April 30, 1910	10	629	649 18
	530	463	47			530	463 47

CURRENCY

APRIL 30

1910.

Superintendent.

William
 Melter and Refiner.

Hint

at Denver

Melter and Refiner's

April

10.

Arnold, R.G.	2	-	-	100	90
Bartlett, W.D.	-	-	-	100	90
Borstadt, Geo.	-	-	-	100	94
Cash, W.M.	-	1	-	100	88
Crary, J.H.	1	-	- Sick	100	86
Dardie, W.N.	-	-	-	100	90
Gray, G.B.	-	-	-	100	85 - 87
Hetrich, J.M.	-	-	-	100	100
Howard, M.	-	-	-	100	88
Lindhard, J.A.	-	-	-	100	90
Lundin, A.H.	-	-	-	100	90
Morrison, R.C.	-	-	-	100	100
O'Brien, W.S.	-	-	-	100	90
Schell, E.P.	-	2	-	100	85
Smith, E.S.	-	-	-	100	90
Spencer, G.W.	-	-	30	100	90
St. John, F.	-	2	30	100	100
Stoddard, X.T.	-	3	-	100	95
Taggart, B.H.	-	-	-	100	90
Whitaker, S.R.	-	1	-	100	90
Whitehead, H.R.	-	-	-	100	85
Winn, H.B.	8	-	-	100	90
Wirth, E.P.	-	1	-	100	100

MELTER AND REFINER'S OPERATIONS.

Unit of the United States
At Denver, Colorado, May 15, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of April, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEERS.	FROM OTHER SOURCES. <i>Agst King</i>
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	327,562.65	317,840.89	9,497.81		223.95		70.90
Gold Bars,							153.05
TOTAL,							
Silver Ingots,	<i>None</i>					8.47	
Silver Bars,							8.47
TOTAL,							

I certify the above to be a correct statement.

Approved:

Superintendent.

Joseph Williams

Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

April/10

REFINERY

1. Product: Gold	146,167.98	fine	ozs.
Silver	41,523.55	"	"
Total	187,691.53	"	"
2. Costs:			
a. Labor	\$1,934.74		
b. Crucibles	69.12		
c. Acids	493.41		
d. Supplies	173.81		
e. Mitts, gloves, aprons	51.70		
f. Chemicals	15.00		
g. Sweeps cellar	55.22		
h. M. & R. Gen'l	277.78		
i. Fuel	152.70		
j. Power	470.28		
k. Repairs	143.41		
l. Light & ventil'n	85.00		
m. Incidentals	18.05		
n. Assays	125.86		
o. Sick leave, vacation & holidays	50.98		
p. 1/8 shut-down exp.	565.69		
Total	4,682.75		
3. New Equipment	90.99		
Total expense	\$4,773.74		
4. Deposits--bullion .992 and over	51.47		
Mint fine silver	93,650.00		
5. Assayer's, sweeps & other bars			
no charges	59,721.26		
6. Crude bullion at 1/2¢	6,549.89		
3/4	781.96		
1	24,406.35		
2	6,393.09		
3-1/2	553.15		
4	140,639.27		
4-1/2	54.33		
5	285.08		
5-1/2	497.77		
6	6,465.00		
6-1/2	9.95		
7-1/2	35.13		
	186,670.97	total	crude
Total operated upon	340,093.70		
7. Cost per ounce total operated upon	.013768		
8. Average " " " " "	.013293		
9. Cost per crude ounce	.025085		
10. Average " " "	.021840		

April/10

INGOT MELTING

1. Amount bullion melted, all gold	3 27,562.65
2. Amount of good ingots, Eagles	3 17,840.89
3. Cost of Ingots	
a. Labor	\$391.11
b. M. & R. Gen'l	138.88
c. Mitts, gloves	2.92
d. Crucibles	13.82
e. Sweeps cellar	0.00
f. Supplies	22.51
g. Fuel	44.70
h. Power	48.71
i. Light, ventilation	11.12
j. Repairs	19.60
k. Incidentals	0.00
l. Sick leave, etc.	0.00
m. Alloy copper	213.26
Total	<u>906.63</u>
4. New Equipment	0.00
Total expense	<u>\$906.63</u>
5. Percentage of good ingots, Gold,	97.0
6. Average cost of ingots for fiscal year, Gold	.003041
Silver	.002441

SWEEPS CELLAR

1. Product: Gold, std. ozs.	48.324	
Silver " "	57.22	
Tailings, avoird. lbs.		9,665
2. Costs:		
a. Labor	\$117.00	
b. Power	52.39	
c. Light, ventil'n	11.13	
d. Supplies	12.15	
e. Repairs	9.30	
f. Incidentals	.70	
g. Sick leave, etc.	0.00	
Total	<u>\$202.67</u>	
3. New Equipment	0.00	
Total expense	<u>\$202.67</u>	
4. Tailings contained, Gold, std. ozs.		10.524
Silver " "		26.57
5. Departments charged as follows:		
Deadwood Assay office,	\$147.45	
Refinery	55.22	
Total	<u>\$202.67</u>	

U. S. MINT SERVICE,
FORM NO. 219,
Ed. 6 to 1909 500—8 x 10 1/2.

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at Denver

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of May, 1910.

GOLD.

Received		STANDARD OUNCES.				Delivered		STANDARD OUNCES.			
Balance	May 2	19				Ingots					
Contained in Gold Deposits			397	413	368	Bars, Fine		292	353	480	
Contained in Silver Deposits			55	008	780						
Contained in Street Deposits			3	731	475	Bars, Standard					
Contained in	G. & S. Exchg. bars		87	60	547	Bars, Unparted					
Clippings, blanks, etc.				407	760	Bars					
	Sweeps bar			48	325	Sweeps					
	(Leadwood sweeps)										
Re-deposits from											
U.S. Assay offices		16	999	480		Balance	May 31, 1910	19	268	316	255
		560	669	735					560	669	735

SILVER.

Received		STANDARD OUNCES.				Delivered		STANDARD OUNCES.			
Balance	May 2	19				Ingots					
Contained in Gold Deposits			529	649	18	Bars, Fine					
Contained in Silver Deposits			7	176	25						
Contained in			20	087	69	Bars, Standard					
G. & S. Exchg. bars				450	85	Bars, Unparted					
						Bars					
	Sweeps bar			57	23	Sweeps					
	(Leadwood sweeps)										
Re-deposits from											
U.S. Assay offices		8	669	92		Balance	May 31, 1910	19	566	091	12
		566	091	12					566	091	12

CORRECT

June 1, 1910

Superintendent.

William
Melter and Refiner

MELTER AND REFINER'S OPERATIONS.

Mint of the United States

At Denver, Colorado, June 1st, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of May, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.					
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS, DOLLARS, BULLION, ETC.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	314.634.76	298.011.53	16.410.03	—	213.20	37544	77.559	98.10	
Gold Bars,	none								
TOTAL,									
Silver Ingots,	none								170.91
Silver Bars,	none								9.33
TOTAL,									180.24

I certify the above to be a correct statement.

Approved:

Superintendent.

See Miller
Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

51
June

M i n t

Melter and Refiner's

Denver, Colo.

May,

10

Arnold, R.C.	-	-	-	100	90
Bartlett, E.D.	-	-	-	100	90
Borstadt, Geo.	-	2	-	100	94
Bush, W.M.	-	3	-	100	88
Crery, J.H.	-	-	-	100	86
Dardis, W.N.	-	-	-	100	90
Gray, G.B.	-	-	-	100	87
Hetrich, J.M.	-	-	-	100	100
Howard, M.	-	-	-	100	88
Lindhard, J.A.	-	-	-	100	90
Lundin, A.H.	-	-	-	100	90
Morrison, R.C.	-	3	30	100	100
O'Brien, W.S.	1	-	-	100	90
Schell, E.P.	-	1	-	100	85
Smith, W.S.	-	-	-	100	90
Spencer, G.N.	-	2	-	100	90
St. John, F.	1	4	-	100	100
Stoddard, X.T.	1	-	-	100	95
Taggart, B.H.	-	-	-	100	90
Whitaker, S.R.	-	1	30	100	90
Whitehead, H.R.	-	-	-	100	85
Winn, H.H.	4	-	-	100	90
Wirth, B.P.	-	5	-	100	100

without
pay

REFINERY

1. Product: Gold	150,623.90 fine ozs.
Silver	51,571.80 "
Total	<u>202,200.70</u> "

2. Costs:

a. Labor	\$1933.90
b. Crucibles	79.48
c. Acids	430.43
d. Supplies	213.37
e. Mitts, gloves, aprons	75.45
f. Chemicals	20.00
g. Sweeps cellar	129.34
h. M. & R. Gen'l	277.78
i. Fuel	164.10
j. Power	408.33
k. Repairs	161.13
l. Light & Ventilation	90.00
m. Incidentals	90.95
n. Assays	268.01
o. Sick leave, vacation & holidays	65.31
p. 1/8 shut-down expense	565.69
	<u>\$4983.27</u>

Reduct copper	87.72
Total	<u>\$4895.55</u>

3. New equipment

	171.74
Total expense	<u>\$5067.29</u>

4. Deposits--bullion .992 & over	4,120.18
Mint fine silver for alloy	115,550.00
5. Assayer's, sweeps, & other bars--no charges	96,876.04

6. Crude bullion at 3/10¢	299.40	
1/2	7,350.33	
3/4	129.09	
1	14,776.88	
1-1/2	22.82	
2	8,444.40	
2-1/2	940.62	
3	389.92	
3-1/2	167.34	
4	183,703.98	
4-1/2	35.67	
5	331.69	
5-1/2	232.88	
6	61.21	
6-1/2	7,932.73	
7	85.67	
7-1/2	79.72	
8	285.05	
Total operated upon	<u>225,269.40</u>	total crude
	441,815.62	

7. Cost per ounce, total operated upon	.011080
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8. Average " " " " "	.012935
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9. Cost per crude ounce	.021731
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10 Average " " "	.021825
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May/10

INGOT

1. Amount bullion melted--all gold		314,634.76
2. Amount of good ingots--Eagles		298,011.53
3. Cost of Ingots	Amount	Cost per ounce
a. Labor	\$365.41	.001226
b. M. & R. Gen'l	138.89	.000466
c. Mitts & gloves	3.91	.000013
d. Crucibles	13.82	.000046
e. Sweeps cellar	0.00	.000000
f. Supplies	18.77	.000062
g. Fuel	42.90	.000143
h. Power	43.13	.000144
i. Light & ventilation	10.00	.000033
j. Repairs	42.01	.000140
k. Incidentals	0.00	.000000
l. Sick, V. & H.	19.94	.000066
m. Alloy copper	205.28	.000688
Total	<u>\$904.06</u>	<u>.003033</u>
4. New equipment	0.00	
Total expense	<u>\$904.06</u>	

5. Percentage of good ingots	94.7
6. Average cost of ingots for fiscal year--Gold	.003111
Silver	.002441

SWEEPS CELLAR

1. Product: Gold std. ozs.	118.286	
Silver " "	299.32	
Tailings, avoird. lbs.		11,397

2. Costs:	
a. Labor	\$112.50
b. Power	57.80
c. Light & Ven.	12.88
d. Supplies	7.28
e. Repairs	2.85
f. Incidentals	0.00
g. Sick, V&H	4.50
	<u>\$197.81</u>

3. Req equipment	0.00
Total expense	<u>\$197.81</u>

4. Tailings contained Gold, std. ozs.	23.667
Silver " "	317.89

5. Departments charged as follows:	Refinery,	\$129.34
	Deposit melting	68.47
	Total	<u>\$197.81</u>

June

Mint

Denver

Melter & Refiner's

June

10.

Arnold, R.G.	1	-	-	100	90
Bartlett, H.D.	4	1	-	100	90
Borstadt, Geo.	1	-	-	100	94
Bush, W.M.	3	-	-	100	88
Crary, J.H.	4	-	-	100	86
Dardis, W.N.	1	-	-	100	90
Gray, G.B.	4	-	-	100	87
Hetrich, J.M.	-	2	30	100	100
Howard, M.	4	-	-	100	88
Lindhard, J.A.	4	-	-	100	90
Lundin, A.H.	1	4	-	100	90
Morrison, R.C.	3	-	-	100	100
O'Brian, W.S.	3	-	-	100	90
Schell, E.P.	3	1	-	100	85
Smith, E.S.	2	4	-	100	90
Spencer, G.N.	1	-	-	100	90
St. John, F.	1	-	30	100	100
Stoddard, X.T.	3	2	-	100	95
Taggert, B.H.	1	-	-	100	90
Whitaker, S.R.	1	-	-	100	90
Whitehead, H.R.	1	-	-	100	90
Wirth, B.P.	-	3	30	100	100

U. S. MINT SERVICE
Form No. 68
Rev. 9-16-10

MELTER AND REFINER'S OPERATIONS.

Mint of the United States
At Denver, Colorado, July 6th, 1910
The following statement shows the total amount of bullion in the different forms delivered to the Melters of this Department during the month of June, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.		RECOVERY.		APPARENT TOTAL GAIN.
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDEMNED.	APPARENT GAIN.	
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	
Gold Ingots,	266.044.43	258.460.38	7.402.30	181.75	125.475
Gold Bars,					
TOTAL,				47.50	118.89
Silver Ingots,					
Silver Bars,					
TOTAL,					

I certify the above to be a correct statement.

Approved:

J. G. Wilson
Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

Receipt No. 1.

July 8, 1910.

RECEIVED of Frank M. Downer, Superintendent of the Mint of the United States at Denver, in redelivery after settlement, June 30, 1910, one hundred and eight thousand eight hundred and thirty-three and three hundred and thirty-one thousandths standard ounces of gold, and six hundred and two thousand seven hundred and thirteen and thirty-three hundredths standard ounces of silver, itemized as follows:

	Standard ounces Gold	Silver
Gold Deposits -----	46,795.899	3,461.72
Silver " -----	2,971.788	18,942.32
Deadwood Re-Deposits -----	2,560.971	2,829.22
Seattle " -----	5,331.289	876.39
Salt Lake " -----	1,317.652	302.64
Boise " -----	2,639.766	1,304.17
Helena " -----	7,130.689	3,347.60
Mass Melts -----	6,217.858	3,615.92
Mint Fine Silver -----		512,900.76
Refinery Settlement, Gold -----	24,621.669	8,902.19
" " Silver -----	7,712.627	45,370.22
" " Copper -----	152.296	102.90
M. & R. Experimentals -----	662.950	41.98
Gold Ingot King -----	179.440	
Fine Gold Tree -----	15.555	
Assayer's Bars -----	386.380	284.64
Proof Gold -----	24.222	
" Silver -----		54.46
Parting " -----		376.20
Ingot Samples -----	112.280	
Totals	108,833.331	602,713.33

J. C. Wilson
Melter and Refiner.

June/10

REFINERY

1. Product: Gold	96,624.02 fine ozs.	
Silver	79,252.25	" "
Total	<u>175,876.27</u>	" "
2. Costs:		
a. Labor	\$1,768.27	
b. Crucibles	58.75	
c. Acids	113.26	
d. Supplies	147.17	
e. Mitts, gloves, aprons	44.30	
f. Chemicals	20.00	
g. Sweeps Cellar	140.00	
h. M. & R. Gen'l	277.78	
i. Fuel	87.00	
j. Power	222.91	
k. Repairs	266.22	
l. Light & Ventilation	95.00	
m. Incidentals	17.55	
n. Assays	257.23	
o. Sick, V. & H.	144.96	
p. 1/8 shut-down expense	565.69	
Total	<u>\$4,226.09</u>	
3. New Equipment	114.25	
Total expense	<u>\$4,340.34</u>	
4. Deposits, Bullion .992 and over	3,299.55	
Mint fine silver for alloy	4,200.00	
5. Assayer's, sweeps & other bars, no chgs.	17,792.10	
6. Crude bullion at 1/2¢	795.21	
3/4	112.37	
2	3,997.08	
4	11,096.86	
4-1/2	377.66	
	<u>16,379.18</u>	total crude
Total operated on	41,670.83	
7. Cost per ounce total operated upon	.101416	
8. Average " " " " "	.014265	
9. Cost per crude ounce	.025801	
10. Average " " "	.024191	

INGOT ROOM

1. Amt. bullion melted, Gold		266,044.43
2. Amt. good ingots, Eagles		258,460.38
3. Cost of Ingots.	Amount	Cost per oz.
a. Labor	\$336.03	.001300
b. M. & R. Gen'l	138.89	.000537
c. Mitts & gloves	6.03	.000023
d. Crucibles	17.28	.000066
e. Sweeps cellar	80.90	.000313
f. Supplies	30.27	.000117
g. Fuel	49.80	.000192
h. Power	70.70	.000273
i. Light & ventilation	10.00	.000038
j. Repairs	9.50	.000036
k. Incidentals	0.00	.000000
l. Sick, V. & H.	49.61	.000191
m. Alloy Copper	162.25	.000627
Total	<u>\$961.26</u>	<u>.003719</u>

4. New Equipment 0.00

Total expense \$961.26

5. Percentage of good ingots, Gold, 97.1

6. Average cost of ingots for fiscal year, Gold .003199
 " " " " Silver .002441

The Ingot room performed work for the Coining department as follows:

Labor	\$5.47
Supplies	<u>7.21</u>
Total	<u>\$12.68</u>

SWEEPS CELLAR

Product: Gold, std. ozs.	450.441	
Silver " "	<u>611.27</u>	
Tailings, avoird. lbs.		28,077

2. Costs:	\$105.75
a. Labor	85.22
b. Power	10.30
c. Light & Ven.	14.08
d. Supplies	10.95
e. Repairs	.40
f. Incidentals	11.25
g. Sick, V. & H.	<u>\$237.95</u>
Total	

3. New Equipment 20.50

Total expense \$258.45

4. Tailings contained, Gold, std. ozs.	136.939
" " Silver " "	<u>664.03</u>

5. Departments charged as follows:

Refinery	\$140.00
Ingot room	80.90
Coiner	<u>17.05</u>
Total	<u>\$237.95</u>

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

The Melter and Refiner received from the Superintendent during the fiscal year 1910:

GOLD ACCOUNT

		Standard Ounces
In Bullion		1,881,945.335
Returned prior to settlement	1,677,585.969	
" at settlement	204,665.805	1,882,251.774
Surplus in Gold recovered		306.439

SILVER ACCOUNT

In Bullion		618,697.82
Returned prior to settlement	16,524.70	
" at settlement	603,197.27	619,721.87
Surplus in Silver recovered		1,024.15

The surplus was recovered from unreported fractions of assays and from fractional gains in weights of deposits.

The Ingot Melting Room was in operation six months only.

The Sweeps Cellar was operated for six months, and treated 83,206 lbs. of sweeps, and extracted therefrom 1,047.455 standard ounces of gold and 1,799.37 standard ounces of silver; and the resulting mill tails contained 296.654 standard ounces of gold and 1,871.51 standard ounces of silver.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

-2-

Refinery operations, covering a period of eight months, were as follows:

	GOLD ACCOUNT	Standard Ounces
Delivered to the Refinery		1,411,433.731
Returned prior to settlement	1,378,938.811	
" at settlement in bars	32,965.222	
" " " " sweeps	71.556	1,411,975.589
Surplus in Gold recovered		541.858

	SILVER ACCOUNT	
Delivered to the Refinery		1,471,908.34
Returned prior to settlement	1,417,073.87	
" at settlement in bars	54,854.25	
" " " " sweeps	436.44	1,472,364.56
Surplus in Silver recovered		456.22

The Refinery also returned Platinum, 40.52 ounces, and Copper, 638 pounds.

The Refinery earnings were as follows:

Charges collected on bullion treated in Refinery	\$60,565.82
Surplus bullion recovered	6,173.55
Platinum	911.70
Copper	87.72
	\$67,738.79

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

-3-

The following melts were made:

Character of Melts	Gold	Silver	Gold & Silver	Total
Deposits	3,738	613		4,351
Anodes	47	464		511
Cathodes	60	50		110
Ingots	293	3		296
Mint Bars	171	101		272
Slimes	42	57		99
Settlement	8	14		22
Sweats			314	314
Miscellaneous	166		264	430
Totals	4525	1302	578	6405

Ingot melts condemned, None. Remelts: Gold, one; Silver, none.

Number of employees in the Refinery	15
" " " " " Department, excluding Refinery	7

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Comparative Statement of Ingot Room Gold Wastage: 1909 - 1910

1909 Metal sent to Ingot room	<u>2,866,333.080</u>
Legal allowance for wastage	<u>2,866.333</u>
Loss	<u>296.400</u>
Percentage of Legal Allowance	<u>10.3</u>

This loss was determined in the following manner:

The M. & R. <u>department</u> surplus for 1909 was	909.732
Deduct Refinery surplus	599.686
Assayer's "	19.721
Deposit grains & vault sweepings	<u>38.942</u>
	658.349
Ingot room apparent surplus	<u>251.383</u>

which included a number of improper credits (all of which items are excluded from the 1910 annual report) as follows:

Deposit Melting room metal	231.489
" " " tails	30.550
Gain on ingots	116.820
Well metal	98.544
" tails	<u>70.380</u>
Total improper credits	547.783
Apparent surplus as above	<u>251.383</u>
Loss	296.400

1910 Metal sent to Ingot room	<u>1,842,227.820</u>
Legal allowance for wastage	<u>1,842.227</u>
Loss	<u>326.386</u>
Percentage of Legal Allowance	<u>17.7</u>

I N V E N T O R Y

July 1, 1910

Melter & Refiner's Department

M. & R. Office:

3 roll top desks
 1 flat top desk
 1 table
 5 office chairs
 1 revolving stool
 1 - 24 drawer file case
 1 - 2 compartment wardrobe
 1 safe
 3 rugs
 1 letter press, stand, bath, & accessories
 1 Oliver typewriter (#132,445), cover, & accessories
 1 Millionaire calculating machine
 1 Bates numbering machine
 1 Jupiter pencil pointer
 2 brass cuspidors
 1 desk top on safe
 2 waste baskets
 3 desk lamps
 1 dictionary and stand
 1 .45 calibre Colt's revolver
 1 Krag J. rifle
 mirror, feather duster, drinking glass
 shears, pencils, pens, ink, paper weights, rulers, sponges,
 pins, erasers, ink-pads, clips, & other office accessories

Getting Gold	1 vol.
Metallurgy of silver, gold & mercury	2 "
Determinative mineralogy & blow-pipe analysis	1 "
Quantitative chemical analysis	2 "
Metallurgy of zinc and cadmium	1 "
The Metallographist	2 "
Richter's organic chemistry	2 "
Caloric power of fuels	1 "
Electro-chemical analysis	1 "
Manual of assaying	1 "
Kent's mechanical engineer's pocketbook	1 "
U.S. Geol. Survey No. 54	1 "
Reports of Director of Mint	9 "
Regulations Mint & Assay offices	1 "
Annual report production of precious metals	1 "

Make-up Room:

2 flat top desks
 1 office chair
 2 stools
 1 No. 12 - 8000 oz. bullion balance
 1 " 2 - 4000 " " "
 1 clippings pan & counterpoise, #12 balance
 1 small pan " " "
 1 " " " " #2 "
 2 sets weights, .01 oz. to 400 ozs.
 18 - 500 oz. brass weights.
 2 - 12" electric fans

Make-up room (continued):

7 trucks
 6 clipping boxes, copper lined
 17 ingot " " "
 3 " " unlined
 15 copper lock boxes
 1 hammer
 1 set steel figures
 dustpan, brush, floor brush, feather duster
 1 - 3 compartment steel locker
 1 vault step
 1 paint can and lettering brush
 1 copper oil can
 1 coin scoop
 4 tin boxes for filings
 1 Krag J. rifle

Refinery:

1 water-cooled rolling mill
 1 - 200 ton hydraulic press
 2 motor generators sets and switch boards, large
 1 " " " " " small
 2 - 3/4 h.p. motors, gold cells and copper cells
 2 - 1/6 " " laboratory
 1 - 3/4 " " silver cells
 2 - 7-1/2 h.p. " elevator and Chilean mill
 1 - 1/4 " " exhaust fan
 3 - 1/8 " " " "
 1 microscope
 1 analytical balance
 1 assay button " "
 1 bullion " 3' beam
 1 cupel furnace
 1 crucible melting furnace
 1 portable voltmeter
 1 " ammeter
 2 stationary recording ammeters
 1 pyrometer, with Heraeus element
 1 Alberine stone top table for weighing
 1 " " " " " laboratory
 1 plate glass hood
 1 office desk
 2 " chairs
 1 book case
 Laboratory supplies, acids, salts, and apparatus
 Platinum ware (entire list)
 65 graphites plates
 18 porcelain rods
 275 hard rubber rods for gold cells
 190 " " " " silver "
 10 porcelain acid jars
 7 " filters with cocks
 2 " jars, small
 31 " gold cells
 20 earthenware silver cells
 1 " acid jar with cock
 1 " supply tank, silver cells
 7 " filters
 9 " pitchers
 6 white pitchers
 112 porous cells

Refinery (continued):

- 20 hard rubber propellers for gold cells
- 10 " " " silver "
- 4 Rockwell Eng. Co. melting furnaces
- 1 " " reverberatory furnace
- 2 gold boiling furnaces
- 108 #4 graphite cups
- 69 #3 " "
- 137 #80 crucibles
- 245 - 4" rings
- 10 - 2" " "
- 16 gold stirrers
- 30 flat " "
- 250 crucible covers
- 75 quarter slides
- 35 furnace arches
- 25 pedestals
- 12 carborundum burner tile
- 5 fire brick " "
- 2 dumping tables
- 4 pouring benches
- 2 furnace hoods
- 1 charcoal pan
- 3 slag pans
- 7 conical moulds (4 large; 3 small)
- 4 ash cans
- 4 shoe moulds
- 36 gold anode moulds
- 24 fin. gold " "
- 12 silver merchant bar moulds
- 24 " anode " "
- 6 - 1000 oz. moulds for fine silver
- 8 ingot moulds for cathodes, gold
- 20 ingot boxes
- 4 clipping boxes
- 4 prs. pouring tongs
- 1 " ring tongs
- 4 " charging tongs
- 1 " stirring " "
- 2 " pick-up " "
- 1 " crucible " "
- 4 furnace pokers
- 2 mirrors
- Tools--hammers, wrenches, etc.
- Pickling tank and racks
- 20 prs. white rubber gloves
- 50 asbestos mitts
- 29 prs. black rubber gloves
- 111 ~~222~~ " buck gloves
- 660 carpet mitts
- 19 prs buck mitts
- 10 long sleeve rubber gloves
- 9 aprons
- 15 trucks
- 3 ingot rolling trucks
- 1/2 bbl. powd. charcoal
- 2/3 " gran. " "
- 1/4 " silica
- 600 lbs. borax glass
- 300 " bicarb. soda
- 3900 " sulphate of iron
- 600 " rock salt
- 1 bbl. bone ash
- 1/2 " nitre
- 400 lbs. sulphuric acid, com.

Ingot room (continued):

1350 sq. ft. floor grating
 2 waste cans, 15x24
 5 charcoal pans
 6 slag pans
 12 skimming pans
 2 grease pans
 8 furnace hoods
 2 stirring guards
 1 stamping bench
 1 filing bench
 1 set steel figures
 1 anvil
 1 work bench
 1 case for assay samples
 1 - 4 compartment locker
 1 water cooler
 1 bench vise
 1 ingot stand
 2 sets pickling tanks, lead lined
 2 pickling racks
 2 trucks
 1 oil storage tank
 2 bundling presses for clippings
 3 gal. iron water buckets
 10 silver stirrers
 60 #80 crucibles
 17 #14 " "
 48 #4 pouring cups
 55 #3 " "
 28 #2 " "
 1 overhead crane track, 2 travelers
 1 - 1000# chain block
 3 - 4" rings
 3 crucible covers
 25 gold stirrers
 4 floor brushes
 4 flat brushes
 2 wire brushes
 2 hand brushes
 9 brass brushes
 1 - 2" steam syphon
 17 - 14" files
 18 prs. buck mitts
 74 " " gloves
 8 aprons
 6 " asbestos covered
 18 prs. sleeves
 40 asbestos mitts
 1 pr. sleeves, asbestos cov'd
 14 - 1/2" Powell angle needle valves
 4 balls cotton twine
 1/2 bottle Phenol Sodique
 46 gals. lard oil
 250 lbs. MBXX charcoal
 250 " Bicarb. soda
 250 " nitre
 39 base tile
 20 top slabs
 2580 fire brick
 1 flux bin
 14 granulation cups, copper
 1 lead acid pitcher

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Ingot room (continued):

150 ft. 1/2" rope
 9 furnace body tile A, S. 163
 16 " " " B "
 9 " " " C "
 9 " " " D "

Sweeps Cellar

3 shovels
 2 pcs. brass screen, each 36x60
 2 monkey wrenches
 2 brushes, floor, bench
 1 amalgamating pan, 17"
 1 water bucket
 1 wheel barrow
 5 lbs. cyanide
 " sodium metal
 " quicksilver
 1 doz. stove bolts
 1 pr. cotton blankets
 1 - 3 lb. hammer
 40 ft. hose
 1 Pierce amalgamator
 8 bottles; 6 soup plates
 1 Elspass mill
 1 Jones sampler
 2 copper plates; 30x120 and 56x96
 2 settling tanks
 1 steam drier
 1 electric fan
 1 magnet

M + R Settlement

June 30, 1910

Mint	2	4	3	569 80	999 ²	3	964 46
Fine	3	64	3	925 95	999	4	357 80
Silver	4	5	4	561 70	999	5	063 48
	6	5	4	496 70	999 ¹	4	992 58
	7	5	4	798 00	999	5	325 78
	8	5	4	725 35	999	5	245 13
	9	5	4	656 95	999	5	169 21
	10	5	4	752 40	999	5	275 16
	11	5	4	615 50	999	5	123 20
	12	5	4	673 30	999	5	187 36
	13	5	4	748 65	999	5	271 00
	14	5	4	691 10	999	5	207 12
	15	5	4	829 65	999	5	360 91
	16	5	4	812 15	999	5	341 48
	17	5	4	80 50	999	5	337 43
	18	5	4	827 00	999 ²	5	360 65
	19	5	4	835 55	999 ²	5	370 14
	20	5	4	549 15	999	5	049 55
	21	5	4	626 25	999	5	135 13
	22	5	4	480 55	999 ¹	4	974 65
	23	5	4	666 70	999	5	180 03
	24	5	4	616 60	999	5	124 42
	25	5	4	794 60	999	5	322 00
	26	5	4	653 65	999 ¹	5	188 84

Forward

122,923

Forward

122 905 51

Mint	27	5	4	670 30	999 ¹	5	185 33
Pine	28	5	4	677 85	999 ¹	5	193 71
Silver	29	5	4	759 70	999 ¹	5	284 58
	30	5	4	669 80	999	5	183 47
	31	3	2	384 75	999	2	647 07
	32	5	4	819 75	999	5	349 92
	33	5	4	627 85	999	5	136 91
	34	5	4	659 90	999	5	172 48
	35	5	4	435 40	999	4	923 29
	36	5	4	536 25	999	5	035 23
	37	5	4	496 50	999	4	991 11
	38	5	4	619 15	999	5	127 25
	39	5	4	653 25	999	5	165 10
	40	5	4	620 50	999	5	128 75
	41	5	4	494 10	999	4	988 45
	42	5	4	695 05	999	5	211 50
	43	5	4	650 75	998 ³	5	161 04
	44	5	4	565 90	998 ³	5	066 88
	45	5	4	659 35	999	5	171 87
	46	5	4	617 60	999	5	125 53
	47	5	4	811 00	999	5	340 21
	48	5	4	569 90	999 ²	5	075 12
	49	5	4	745 95	999	5	268 00
	50	5	4	728 40	999	5	248 52

Forward

244 08

Forward

244 086 83

Mint	51	5	4	789 00	999	5	315 79
Fine	52	5	4	786 30	999	5	312 79
Silver	53	5	4	681 55	999	5	196 52
	54	5	4	733 60	999	5	254 29
	55	5	4	592 85	999	5	098 06
	56	5	4	696 10	999	5	212 67
	57	5	4	688 85	999	5	204 62
	58	5	4	560 35	999 ¹	5	063 25
	59	5	4	579 75	999	5	083 52
	60	5	4	642 70	999	5	153 39
	61	5	4	704 65	999	5	222 16
	62	5	4	747 25	999	5	269 44
	63	5	4	766 35	999 ¹	5	291 97
	64	5	4	256 75	999	4	754 99
	65	5	4	543 75	999	5	043 56
	66	5	4	418 30	999	4	904 31
	67	5	4	348 90	999	4	627 27
	68	5	4	488 05	999	4	981 73
	69	5	4	853 45	999	5	387 32
	70	5	4	721 10	999	5	240 42
	71	5	4	818 65	999 ²	5	351 37
	72	5	4	558 35	999 ²	5	062 30
	73	5	4	625 30	999 ²	5	136 68
	74	5	4	691 20	999 ²	5	209 83

367 635 00

Forward

Forward

496 204 53

Mint	99	5	5	002 00	999	5	552 22
Fine	100	5	5	071 20	999 ¹	5	330 44
Silver	101	5	4	964 70	999 ²	5	513 57
Gold	278	52	6	096 30		6	096 300
Ingots	9	52	6	075 20		6	075 200
Eagles	280	52	6	089 50		6	089 500
	1	52	6	080 95		6	080 950
	2	52	6	083 45		6	083 450
	3	52	6	095 75		6	095 750
	4	52	6	074 95		6	074 950
	5	52	6	094 80		6	094 800
	6	52	6	098 45		6	098 450
	7	52	6	110 50		6	110 500
	8	52	6	113 30		6	113 300
	9	52	6	089 00		6	089 000
	290	52	6	110 45		6	110 450
	1	52	6	096 15		6	096 150
	2	52	6	052 75		6	052 750
	3	38	4	351 70		4	351 700

Forward

95 713 200 512 900 75

Forward

95 713 202 512 705 10

Gold	3314	538 35	816 ²	172 ²	488 403	103 18
Deposits	8	294 70	586	406	191 882	132 94
1910	3320	205 28	744	246	169 698	56 10
	1	208 24	738 ²	233 ²	170 872	54 02
	3	881 35	949 ²		929 824	
	4	710 55	692 ²	292 ²	546 728	230 92
	3334	870 80	848	017 ²	820 487	16 93
	5	1 008 76	848	017 ²	950 476	19 61
	3342	773 55	993 ³		854 128	
	3	329 40	767	222	280 722	81 25
	5	629 25	929	061 ²	649 525	42 99
	6	593 97	894 ²	048 ²	590 340	32 00
	7	703 67	844 ²	047 ²	660 277	37 13
	8	263 31	936 ²	050 ²	273 988	14 77
	9	329 80	749	241	274 466	88 31
	3350	333 04	559 ²	155	207 039	57 35
	3363	326 53	745	245	270 294	88 88
	5	492 87	952 ³		521 757	
	3370	861 86	597	267	571 700	255 68
	5	1 180 33	951		1 247 215	
	3385	818 19	911	075 ²	828 190	68 63
	6	720 26	873 ²	053	699 052	42 41
	7	722 49	895	056 ²	718 476	45 35
	3401	290 45	736	254	237 523	81 97

Forward

108 866 262 514 75

Forward

108 866 262 574 451 18

Gold	3402	1	007 35	892 ²	009	998 955	10 07
Deposits	3		955 69	892 ²	011 ²	947 725	12 21
1910	4		610 70	992		673 127	
	9		564 46	945		592 683	
	3416		609 92	917	076	621 440	51 50
	7		749 56	860 ²	053 ²	716 662	44 55
	8		448 23	861	059 ²	428 806	29 63
	9		510 15	733	256 ²	252 599	88 39
	3422	3	1 573 53	994	003 ²	1 737 876	
	7		846 39	584	076 ²	549 213	71 94
	8		770 08	584 ²	077 ²	500 124	66 31
	9		680 48	585 ²	077	442 690	58 21
	3430		614 05	586 ²	075	400 155	51 17
	2		559 56	943		586 294	
	3		319 15	735	256	260 639	90 78
	9	2	1 300 95	994 ¹	002 ³	1 437 188	
	3446		310 47	854	136 ²	294 601	47 08
	9		770 88	919 ²	071	787 582	60 81
	3450		708 15	880	057	692 413	44 84
	1		918 21	880	057	897 605	58 15
	2		305 93	736	254	250 182	66 34
	5	1	083 10	880	014	1 059 031	16 84
	6	1	032 00	880	015	1 009 066	17 20
	3462		509 79	946 ¹		535 987	

125 539 125 515 357

Forward

125 539 105 515 357 20

Gold	3469		299 95	735	255		244 959	84 98
Deposits	3470		340 16	734	256		277 419	96 75
1910	1		208 84	742 ²	233 ²		172 293	54 18
	3482	2	1 481 36	994 ¹	003 ¹	1	636 491	
	3		644 80	923	066 ²		661 278	47 64
	4		687 48	870 ²	052 ²		664 945	40 10
	5		852 46	875 ²	051		829 254	48 30
	9		571 13	819 ²	171 ²		520 045	108 83
	3492		313 70	737 ²	252 ²		257 059	88 01
	3502		523 63	930			558 538	
	3		370 97	897 ²			369 939	
	3511		860 69	884	014		845 388	13 38
	2	1	224 45	885	013	1	204 042	17 68
	4		304 18	737	253		249 089	85 50
	8		512 74	932 ²	059		531 255	33 61
	9		773 13	866 ²	053 ²		744 352	45 95
	3520		706 17	889	053		697 539	41 58
	8	3	2 162 32	994	004 ²	2	388 162	
	3531		308 62	735 ²	254 ²		252 211	87 27
	6		697 27	945			732 133	
	3544		724 41	914 ²	075 ²		736 081	60 76
	5		942 12	841	048 ²		380 358	50 76
	6	2	1 373 69	994	004	1	517 164	

Forward

142 509 077 515 357 20

Forward

142 509 099 516 362 46

Silver	553	1	208 84	066 ²	874	89 319	1	173 91
Deposits	4	1	044 92	066 ²	873 ²	77 207	1	014 15
1910	5		949 72	066 ²	869 ²	70 173		917 53
	6	1	190 93	066 ²	869 ²	87 996	1	150 57
	7	1	237 97	066 ²	870	91 472	1	196 70
	8	1	069 20	066 ²	873 ²	79 002	1	037 71
	9		528 60	090	363	52 860		213 20
	560		525 17	090	364	52 517		212 40
	1		499 17	090 ²	363	50 194		201 33
	2		547 03	091	364	55 310		221 34
	3		538 70	091	370	54 468		221 46
	4		354 74	090 ²	369 ²	35 671		145 64
	5		558 88	085 ²	355	53 093		220 44
	6		480 20	086	359	45 885		191 54
	7		458 20	086	362 ²	43 783		184 55
	8		538 30	086	363	51 437		217 11
	9		529 05	086	362	50 553		212 79
	570		383 80	086	362	36 674		154 37
	1		880 85	336 ²	639 ²	329 340		625 89
	2		378 60	391	592	164 480		249 03
	4		218 86	010	253	2 431		61 52
	6		218 48	010	695 ²	2 427		168 85
	8		848 66	369	616	347 950		580 86
	583		468 20	062	874	32 253		454 67

Forward

144 465 594 527 387 72

Forward

144 465 594 527 359 92

Silver	584		824 80	062 ²	874	57 277	800 97
Deposits	5	1	184 50	062	874	81 598	1 150 28
1910	6		998 71	062 ²	874	69 354	969 85
	7	1	276 22	062 ²	874	88 626	1 239 35
	8		321 62	061 ²	874 ²	21 977	312 50
	590	1	157 45	062	876	79 735	1 126 58
	1	1	212 04	062	876 ²	83 496	1 180 39
	2		991 70	397 ²	570 ²	438 000	628 62
	3		246 64	347 ²	641	95 230	175 66
<hr/>							
S. Exchg.	15		299 41		994		330 68
<hr/>							
Mass	1	17	5 936 90	601	341	3 964 529	2 249 42
Melts	2	12&K	3 627 90	559	339	2 253 329	1 366 50

151 698 745 538 920 12

151 698 745 538 920 72

Forward

Helena	500		581 04	881 ²	089	569 096	57 45
Re-Dep.	1		253 36	503 ²	458	141 740	128 93
	2		998 44	360	626	399 376	694 47
	3	1	074 64	336 ²	646	401 795	771 35
	4	1	011 83	352 ²	629	396 300	707 15
	5		240 88	770 ²	190	206 220	50 85
	6		387 01	841 ²	154	361 854	66 22
	7		340 10	861 ²	135	325 551	51 01
	8		280 23	871 ²	124	271 356	38 60
	9		280 37	918	064	285 977	19 93
	510		616 11	713	271	488 096	185 51
	1		305 38	840 ²	152 ²	285 190	51 74
	533		882 19	7 5 ²	216	740 549	211 72
	4		562 27	934 ²	048	583 823	29 98
	5		308 20	906	079	310 254	27 05
	7		371 13	861 ²	135	355 253	55 66
	8		520 22	865 ²	125	500 276	72 25
	9		592 59	771 ²	194	507 981	127 73

Boise	526		417 90	250	411	116 083	190 84
Re-Dep.	7	1	229 10	655 ²	317	895 194	432 91
	8	1	122 04	739	224	921 319	679 26
	9	1	025 71	620 ²	352	707 170	401 16

Salt Lake	530	1	220 97	778	191	1 055 460	359 11
Re-Dep.	1		290 25	813	135	362 192	43 53

Forward

162 786 852 543 875

Forward

162 786 852 543 875 13

Seattle	514		601 80	817 ²	178	546 635	119 02
Re-Dep.	5		547 08	789	168	479 606	102 12
	6		588 49	505	151	330 208	98 73
	7		843 24	997 ²	001	934 591	
	8		771 50	812 ²	180	696 493	154 30
	9		546 00	996 ²	002	604 543	
	520		409 84	830	162	377 963	73 77
	1		724 90	746	180	600 861	144 98
	2		917 36	746	180	760 389	183 47
Deadwood	540	1	163 92	376	551	486 259	712 57
Re-Dep.	1		354 52	580	286	228 468	112 65
	2	1	075 71	357 ²	577	427 295	689 64
	3		906 32	604	279	608 241	280 95
	4		705 13	296	330	231 909	258 54
	5	1	066 20	346	578	409 894	684 73
	6		269 53	564	301	168 905	90 14

170 679 112 547 53 74

170 679 112 547 580 74

Forward

Refinery	1	20	3	481 80	994		3	845 454	
Settlement	2	10	1	805 45	999		2	004 049	
Gold	3	11	4	702 95	886	112	4	629 795	585 25
	4	10	4	310 45	901	097	4	315 239	464 57
	5	14	4	766 30	534 ²	455	2	830 652	2 409 62
	6	12	4	106 45	552	416 ²	2	518 622	1 900 37
	7	11	3	847 00	552 ²	420	2	361 630	1 795 26
	8	11	3	691 10	516	426	2	116 230	1 747 12

Refinery	1	30	2	891 10		999			3 209 12
Settlement	2	30	2	890 00		999			3 207 90
Silver	3	4	3	954 35		999			4 389 32
	4	4	4	059 80		999 ¹			4 507 50
	5	15	4	642 60	251 ²	722 ²	1	297 348	3 726 97
	6	16	4	423 20	152	808		747 029	3 971 05
	7	14	4	017 55	161 ²	812		720 927	3 624 72
	8	14	3	762 20	109	862 ²		455 644	3 605 44
	9	11	3	175 75	137	849		483 419	2 995 79
	10	11	3	056 95	115 ²	880		392 308	2 989 01
	11	15	4	708 40	380 ²	592	1	990 606	3 097 08
	12	13	3	837 80	223	774		950 921	3 300 50
	13	11	2	824 80	104	716		326 421	2 247 28
	14	5	1	173 05	267	382 ²		348 004	426 54

Copper	1	47	2	828 50	026 ²	018 ²		83 283	58 14
Base Bullion	2	55	3	357 40	018 ²	012		69 013	44 78

Forward

203 165 704 601 956 15

Forward

M. & R.	13	522 69	884 ²	012	513 688	6 96
Expls.	16	198 87	675 ²	158 ²	149 262	35 02
G. Ingot Kg.	293	179 44	900		179 440	
Fine Gold Tree		14 00	1000		15 555	
Assayer's	19	214 23	562 ²	305 ²	133 893	72 71
Bars	20	107 41	027 ²	948 ²	3 281	113 19
	21	75 91	997 ²		84 133	
	22	270 12	550	329	165 073	98 74
Proof Gold		21 80	1000		24 222	
" Silver		49 02		1000		54 46
Parting "		338 58		1000		376 20
Ingot Samples		112 28	900		112 280	
Sweeps-Ingot #2, Av. Lbs		4,962	Per 17.31	ton 17.23	47 718	47 50
" Refinery #5 "		14,856	8.67	52.88	71 556	436 44

TOTAL 204 665 805 603 197 27

Platinum Sponge 8003 39.38 Credit to 1929
40.65 1910

S U M M A R Y

M. & R. Settlement, June 30, 1910.

Gold Deposits	46	795 899	3	461 72
Silver "	2	971 788	18	942 32
Deadwood Re-Deposits	2	560 971	2	829 22
Seattle "	5	331 289		876 39
Salt lake "	1	317 652		302 64
Boise "	2	639 766	1	304 17
Helena "	7	130 689	3	347 60
Mass Melts	6	217 858	3	615 92
Mint Fine Silver			512	900 76
Gold Ingots	95	713 200		
Refinery Settlement, Gold	24	621 669	8	902 19
" " Silver	7	712 627	45	370 22
" " Copper		152 296		102 90
Miscellaneous	1	500 101	1	241 22
Grand Total Delivered at Settlement	204	665 805	603	197 27
Amt. Chgd. to M. & R., June 30, 1910	204	359 366	602	173 12
Surplus		306 439	1	024 15

Mint of the United States at Denver, Colorado.

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the

Superintendent of the Mint by him during the month of July, 1910.

GOLD.

Received	STANDARD OUNCES.	Delivered	STANDARD OUNCES.
Balance <i>Redelivery of July 8th 1910</i>	108 838 331	Ingots	
Contained in Gold Deposits <i>of July 1911</i>	76 138 593	Bars, Fine	
Contained in Silver Deposits	4 863 511	Bars, Standard	
Contained in Gold exchange bars		Bars, Unparted	
Clippings, blanks, etc.		Bars	
Contained in re-deposits		Sweeps	
From U. S. Assay Office	83 730 322		
Coiner's attendance & tollion	4 187 557		
	277 514 102	Balance	277 514 102
			277 514 102

July 30th

SILVER.

Received	STANDARD OUNCES.	Delivered	STANDARD OUNCES.
Balance <i>Redelivery of July 8th 1910</i>	602 713 33	Ingots	
Contained in Gold Deposits <i>of July 1911</i>	10 772 35	Bars, Fine	
Contained in Silver Deposits	23 418 44	Bars, Standard	
Contained in Gold exchange bars		Bars, Unparted	
Clippings, blanks, etc.	7 634 45	Bars	
Contained in re-deposits		Sweeps	
From U. S. Assay Office	19 431 72		
Coiner's attendance & tollion	17 75		
	664 053 42	Balance	623 486 21
			664 053 42

July 30th

CORRECT:

Superintendent.

Joseph Melton
Melter and Refiner.

19

MELTER AND REFINER'S OPERATIONS.

of the United States
At Denver, Colorado August 2nd, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of July, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.		RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDEMNED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,						
Gold Bars,						
TOTAL,						
Silver Ingots,	139,800.78	121,596.00	18,070.38		134.40	134.40
Silver Bars,						
TOTAL,						

I certify the above to be a correct statement.

Approved:

J. W. Milleam
Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

July/10

REFINERY

Refinery was shut down the entire month.

Labor	\$151.00	
M. & R. Gen'l	218.13	
Sweeps cellar	61.50	
Repairs	188.56	
Incidentals	3.10	
Vac. & Hol.	<u>1,669.19</u>	
Total	\$2,291.48	
Less	<u>184.75</u>	(work charged Gen'l Dept. on settlement)
Balance	\$2,106.73	
New Equipment	<u>396.81</u>	
Total expense	\$2,503.54	

INGOT ROOM

1. Amount bullion melted, Silver		139,800.78
2. Amount of good ingots.		<u>121,596.00</u>
3. Cost of ingots	Amount	Cost per oz.
a. Labor	\$146.39	.001203
b. M. & R. Gen'l	109.07	.000896
c. Mitts & gloves	8.54	.000070
d. Crucibles	13.82	.000113
e. Sweeps cellar	30.75	.000252
f. Supplies	17.03	.000140
g. Fuel	21.90	.000180
h. Power	25.71	.000211
i. Light & Ven.	0.00	.000000
j. Repairs	34.65	.000284
k. Incidentals	0.00	.000000
l. Vac. & holidays	324.08	.002665
m. Alloy copper	<u>120.27</u>	.000989
Total	\$852.21	.007008
4. New Equipment	<u>0.00</u>	
Total expense	\$852.21	
5. Percentage of good ingots,	86.9	

SWEEPS CELLAR

Sweeps cellar did not operate in July

Labor	\$24.75	
Vac. & Hol.	<u>92.25</u>	
Total	\$117.00	
Departments charged as follows:	Refinery	\$61.50
	Ingot Room	<u>30.75</u>
	Total	\$92.25
Included in Ingot cost		<u>24.75</u>
		\$117.00

Minist of the United States at D E N V E R

Gold and Silver Bullion Balances in the Melter and Refiners hands and Deliveries to the Superintendent of the Mint by him during the month of August 1910.

GOLD.

[illegible]

SILVER.

[illegible]

CORRECT:

September 1, 1910.

Superintendent.

J. M. Beckwith
Melter and Refiner.

Mint

Denver, Colo.

Melter & Refiner's

August

10.

Arnold, R.C.	-	1	30	100	90
Bartlett, H.D.	-	-	-	100	90
Borstadt, G.	-	-	-	100	94
Bush, W.M.	-	-	-	100	95
Crary, J.H.	-	-	-	100	86
Dardis, W.N.	-	-	-	100	90
Gray, G.B.	-	1	30	100	87
Hetrich, J.M.	-	-	-	100	100
Howard, M.	-	-	-	100	88
Lindhard, J.A.	-	1	-	100	90
Lundin A.H.	-	-	-	100	90
Morrison, R.C.(resigned Aug.15)	14	-	-	without pay	70 70
O'Brian, W.S.	3	-	30	without pay	100 90
Schell, E.P.	2	5	-	leave without pay	100 85
" "	24	3	-		
Smith, E.S.	-	-	-	100	90
Spencer, G.N.	-	2	-	100	90
St. John, F.	5	3	30	100	100
Stoddard, X.T.	1	5	-	100	95
Taggart, B.H.	-	1	30	100	90
Whitaker, S.R.	-	1	30	100	90
Whitehead, H.R.	-	2	-	100	90
Wirth, B.P.	-	2	-	100	100

MELTER AND REFINER'S OPERATIONS.

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of August 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

At Denver, Colorado, mint of the United States, Sept 6, 1910

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	142.433.17	184.402.13	7.960.64		70.40		35.596	34.804
Gold Bars,								
TOTAL,								
Silver Ingots,	298.116.27	271.668.65	26.113.54		334.08		190.17	143.91
Silver Bars,								
TOTAL,								

I certify the above to be a correct statement.

Approved:

Robert Williams
Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

August/10

REFINERY

1. Product: Gold	127,662.65 fine ozs.
Silver	52,302.30 " "
Total	<u>179,964.95 " "</u>

2. Costs

a. Labor	\$1,775.86
b. Crucibles	70.20
c. Acids	473.46
d. Supplies	102.81
e. Mitts, gloves, aprons	64.72
f. Chemicals	5.00
g. Sweeps cellar	0.00
h. M. & R. Gen'l	277.78
i. Fuel	135.90
j. Power	438.98
k. Repairs	177.81
l. Light & Ven'n	110.00
m. Incidentals	19.45
n. Assays	133.07
o. Vacation & Holidays	33.06
l/ll shut-down expense	191.52
Total	<u>\$4,009.42</u>

3. New Equipment	20.475
Total expense	<u>\$4,030.17</u>

4. Crude bullion	318,719.08
5. Bullion, .992 and above: Gold	32,779.31
Silver	0.00
6. Retreated	46,652.60
7. Bullion - no charges	92,708.34
Total operated upon	<u>490,859.23</u>
8. Cost per ounce total operated upon	.008168
9. Average per ounce " " "	.008168
10. Cost per crude ounce	.012579
11. Average per " " "	.012579

SWEEPS CELLAR - Not operating in August

INGOT ROOM

1. Amount of bullion melted: Gold	142,433.17
Silver	298,116.27
Total	<u>440,549.44</u>

2. Amount good ingots: Double Eagles	134,402.13
Quarter dollars	271,668.65
Total	<u>406,070.78</u>

3. Cost of Ingots

	Gold		Silver		Total
	Amount	per oz.	Amount	per oz.	
a. Labor	\$261.13	.001942	\$325.69	.001198	\$586.82
b. M. & R. Gen'l	61.80	.000459	77.08	.000283	138.88
c. Mitts & Gloves	1.20	.000008	3.63	.000013	4.83
d. Crucibles	6.91	.000051	24.19	.000089	31.10
e. Sweeps cellar	0.00	.000000	0.00	.000000	0.00
f. Supplies	17.69	.000131	18.42	.000067	36.11
g. Fuel	21.60	.000160	47.70	.000175	69.30
h. Power	24.68	.000183	30.78	.000113	55.46
i. Light & Ventil'n	3.98	.000029	4.96	.000018	8.94
j. Repairs	8.57	.000063	10.68	.000039	19.25
k. Incidentals	1.60	.000011	2.00	.000007	3.60
l. Vacation & Hold's	4.32	.000032	5.38	.000019	9.70
M. Alloy copper	103.81	.000772	206.94	.000761	310.75
Totals	\$517.29	.003848	\$757.45	.002788	\$1,274.74

4. New Equipment

Total expense

0.00
\$1,274.74

5. Percentage of good ingots, Gold	94.3
Silver	91.1

6. Average cost of Ingots for fiscal year: Gold	.003848
Silver	.004093

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at DENVER

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of September, 1910.

GOLD.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Sept. 1, 1910				Balance	Sept. 30, 1910		
Contained in Gold Deposits		476	638	037	Ingot			219	825 260
Contained in Silver Deposits		67	295	320	Bars, Fine				
Contained in		6	483	191	Bars, Standard				
Clippings, blanks, etc.		158	968	071	Bars, Unparted				
		59	927	250	Bars				
Con'd coin		1	370	380	Sweeps				
Supt. Sweeps			6	931					
G. Exchg. Bars			60	060					
S.			2	987					
		772	751	156	Balance	Sept. 30, 1910	19	553	925 896
								772	751 156

SILVER.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Sept. 1, 1910				Balance	Sept. 30, 1910		
Contained in Gold Deposits		491	691	89	Ingot			40	808 45
Contained in Silver Deposits		8	817	79	Bars, Fine				
Contained in		26	305	68	Bars, Standard				
Clippings, blanks, etc.		38	245	52	Bars, Unparted				
		28	449	95	Bars				
Con'd coin			895	35	Sweeps				
Supt. Sweeps			3	39					
G. Exchg. Bars			18	23					
S.			103	11					
		594	538	91	Balance	Sept. 30, 1910		553	820 46
								594	538 91

CORRECT:

Oct. 1, 1910.

Superintendent.

William
Melter and Refiner

MELTER AND REFINER'S OPERATIONS.

Mint of the United States

at Monte Colorado, Colorado, October 1st, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of September, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.		RECOVERY.			APPARENT TOTAL GAIN.
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS, CONDENSED.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.	
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	178.488.67	170.795.12	7.583.80			
Gold Bars,			109.74		58.610	51.130
TOTAL,						
Silver Ingots,	113.589.74	108.869.21	4.527.72			
Silver Bars,			172.77		71.58	101.19
TOTAL,						

I certify the above to be a correct statement.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Gammillan
Melter and Refiner.

Mint

Molter & Refiner's

Denver, Colo.

September,

1

Arnold, R.G.	-	-	30		100	90
Bartlett, H.D.	-	4	-		100	90
Borstadt, G.	2	4	30		100	94
Bush, W.M.	-	-	30		100	97
Cravy, J.H.	-	1	-		100	88
Dardis, W.N.	-	-	-		100	90
Gray, G.B.	-	-	-		100	90
Hetrich, J.M.	1	-	-		100	100
Howard, M.	-	-	-		100	88
Lindhard, J.A.	-	-	-		100	90
Lundin, A.H.	-	-	-		100	90
O'Brian, W.S.	13	-	-	without	100	90
Russell, N.A.	-	-	-	pay	100	90
Schell, E.P.	1	-	30	"	100	87
Smith, E.S.	-	-	-		100	85
Spencer, G.N.	-	4	-		100	90
St. John, F.	-	6	-		100	90
Stoddard, X.T.	-	1	-		100	100
Taggart, B.H.	-	-	-		100	95
Whitaker, S.R.	-	-	-		100	90
Whitehead, H.R.	-	-	-		100	90
Wirth, E.P.	-	3	30		100	90
					100	100

Sept/10

REFINERY

1. Product: Gold	139,799.08	Fine ozs.
Silver	<u>136,713.60</u>	"
Total	276,512.68	"

2. Costs

a. Labor	\$1,816.44
b. Crucibles	65.68
c. Acids	423.85
d. Supplies	141.09
e. Mitts, gloves, aprons	65.07
f. Chemicals	5.00
g. Sweeps cellar	0.00
h. M. & R. Gen'l	273.52
i. Fuel	146.70
j. Power	437.09
k. Repairs	127.24
l. Light & ventilation	90.00
m. Incidentals	18.55
n. Assays	215.59
o. Vacation & holidays	28.79
p. 1/11 shut down exp.	<u>191.52</u>

4,046.11

3. New Equipment

Total expense

72.81
\$4,118.92

4. Crude bullion

5. Bullion, .992 and above, Gold

Silver

208,796.83

16,061.62

0.00

6. Retreated

81,796.15

7. Bullion, no charges

107,854.57

Total operated upon

414,509.17

8. Cost per ounce total operated upon

.009761

9. Average

"

"

"

"

.008897

10. Cost per crude ounce

.019378

11. Average

"

"

.015270

SWEEPS CELLAR, Not operating.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

October 21, 1910.

Memorandum regarding Gold Deposit No. 1046

The bar was calculated and paid for on a gross weight of	799.90
It actually weighed only	<u>789.90</u>
Difference	10.00

The difference made an overpayment to the depositor of \$117.59

The depositor furnished the Weigh Clerk with
10.45 gross ozs. out of his next shipment of
bullion, to make up this shortage, at finenesses
of, Gold, .532-1/2, and, silver, .458-1/2.

Making, std. ozs., Gold 6.183, value \$115.03

"	"	Silver 5.32	"	<u>2.50</u>	<u>117.53</u>
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Net loss	\$0.06
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OK
33

Inventory of Office Furniture, M. & R. Dept., U. S. Mint, Denver

July 1, 1910

Melter and Refiner's Office. First floor

	Date of Purchase or Installation	Cost
1 Roll top desk	July 1, 1905	\$124.00
1 " " "	"	54.00
1 " " " typewriter	"	54.00
1 Oak table	"	54.00
2 Rotary chairs	"	63.50
1 Arm chair	"	28.75
1 Typewriter chair	"	8.75
2 Rotary chairs	"	21.70
1 Flat top desk	"	34.00
1 File case - 24 drawer	May 12, 1906	27.20
1 Wardrobe - 2 compartment	Oct. 16, "	45.50
1 Safe	July 27, 1906	110.50
3 Rugs, each 34" x 60"	Jan. 14, 1904	14.25
1 Letter-press, stand, and accessories	Nov. 29, 1905	17.50
1 Oliver Typewriter, #132,445	Feb. 6, 1906	85.00
1 Millionaire Calculating machine	July 5, 1907	400.00
1 Library lamp	Dec. 11, 1905	37.45
1 Brass desk lamp	Aug. 11, "	7.50
1 Dictionary and stand	Oct. "	24.00
1 Mirror	Sept. 1904	1.25
288 sq.ft. Floor inlaid rubber matting @ \$1.05	1905	302.40
1 Rifle rack		1.50
1 Desk top on safe	Mch. 1908	19.10
23 volumes Technical works	Oct. 1905	98.50
1 Window curtain	Aug. 5, 1904	2.25

Make-up Room. First floor

2 Flat top desks	May 8, 1906	70.00
1 Office chair	"	5.00
2 Stools	"	6.00
Vault shelves	Mch. 1906	88.14
1 wardrobe - 5 compartment	Oct. 16 "	17.50
1 Rifle rack		1.50
1 Mirror	June 21, 1905	1.25

Ingot Melting Room. First floor

1 Roll top desk	Apr. 21, 1906	20.00
1 Chair	"	4.00
1 Mirror	Sept. 1904	1.00
1 Clothes & Tool locker, 4 compartment	May 1906	27.95
1 Water cooler	Feb. 5, 1906	5.00

Sweeps Cellar. Underground at west end of building

1 old home-made Desk	May 1906	15.80
1 old rotary chair	" "	2.50
1 old arm chair	" "	1.50

-2-

Refinery. Second floor

	Date	Cost
1 Wardrobe, 14 compartments, steel	Oct. 16, 1906	\$35.00
1 Wardrobe, wood	May "	13.45
1 Rifle rack		1.50
1 Roll top desk	1906	17.00
2 Chairs	"	5.00
1 Book case	Feb. 1907	47.14
2 Mirrors	Sept. 1904	2.00

Inventory of Machinery and Appliances, M. & R. Dept., U.S. Mint, Denver

July 1, 1910

Make-up Room. First floor

	Date	Cost
1 No. 12 Bullion balance, 8000 oz. capacity, including steel pans	May 6, 1905	\$1,600.00
1 No. 2 Bullion balance, 4000 oz. capacity, including steel pans	"	1,050.00
2 Sets weights, .01 oz. to 400 ozs.	"	150.00
18 Brass weights, 500 ozs. each	"	432.00
2 Electric fans, 12"	Mch. 1906	55.10
7 Trucks	" 8	286.58
6 Clipping boxes, copper lined	Mch. "	53.30
17 Ingot " " "	Apl. "	176.50
3 " " unlined	Mch. "	7.50
15 Copper lock boxes	Mch. 11, 1905	130.50
1 Set steel figures		5.00
Lot miscellaneous articles		5.60
Total		\$3,952.08

Ingot Melting room. First floor

8 M 406 Rockwell Melting furnaces	1905	2,200.00
1 Topping shear with 10 h.p. motor	Aug. 18, "	654.00
1350 sq.ft. cast floor grating	Oct. 31, 1905	844.20
1 Overhead crane track, 2 travellers	1908	125.65
1 Chain block, capacity, 1000 lbs.	Aug. 17, 1908	28.00
5 Arc lamps	Mch. 26, 1906	117.10
2 Electric fans	July 23, 1906	18.00
1 Ingot filing bench	Jan. 24, "	185.92
1 Steam syphon, 2"	1908	12.00
10 Benches and tables, various purposes		70.27
1 Flux bin	1906	8.00
1 Acid pitcher, lead	Mch. 1910	3.50
1 Lot miscellaneous articles		40.80
14 Copper granulation cups	May 26, 1905	15.68
1 Lead lined sink	Feb. 1907	61.18
273 Moulds, various denominations	Mch. 8, 1906	1,774.50
35 pairs tongs, all purposes		91.35
1 Extension light	Aug. 11, 1905	12.00
12 Iron scoops	May "	23.00
25 Pans, various kinds		28.00
8 Furnace hoods	Mch. 1906	38.56
1 Set steel figures	Oct. 10 "	5.00
1 Anvil	Dec. 30, 1905	16.50
1 Case for assay samples	Feb. 1907	9.75
1 Bench vise	" "	5.00
1 Ingot stand	" "	6.00
2 Sets pickling tanks, lead lined		30.00
2 Trucks	Mch. 8, 1906	81.88
2 Clipping bundle presses	1906	9.00
1 Oil storage tank	Jan. 24, 1907	104.00
2 Stirring guards	Jan 1906	7.00
10 Silver stirrers	Dec. 1907	11.50
14 Powell angle needle valves 1/2"	July 13, 1906	24.50
Total		\$6,661.84

Sweeps Cellar. Underground at West end of Building

	Date	Cost
1 Elspass Mill		
1 Amalgamating pan		
40 ft. Water hose		
1 Settling tank 5'x18'x18"		
1 Pierce Amalgamator		
1 Fairbanks platform scale, capacity 2500 lbs.		
1 Copper plate, 30"-120"	Apl. 17, 1906	\$4,395.00
1 " " 54"-96"	Jan. 1907	12.75
1 Settling tank, 5'x18'x18"	Dec. 9, 1908	54.86
1 Steam drier	May 23, 1906	235.00
1 Electric fan	July 24, 1906	297.25
1 Wooden locker for tools	June 16, "	32.28
1 Jones Sampler	1907	10.00
1 Sack elevator	April 1906	25.00
1 Centrifugal 4"x2 pump, and 2 h.p. motor	June 8, 1908	301.47
5 Arc lamps	July 18, 1906	245.00
65 ft. Steam & Water pipe 1/2"	Mch. 26 "	193.07
625 " " " " 1"	1905 & 1906	3.25
100 " " " " 1-1/2"	"	31.25
80 " " " " 2"	"	8.00
1 Lot Miscellaneous articles	"	20.00
1 Wheel barrow	"	9.80
1 Steam trap	"	3.00
	Feb. 16, 1906	27.50
	Total	\$5,904.48

Refinery. Second floor

1 Water cooled rolling mill	Nov. 18, 1905	\$3,650.00
1 - 200 Ton hydraulic press	Feb. 27 1906	3,500.00
2 Large motor generator sets and Switch boards	Apl. 16, 1906	4,600.00
1 Small motor generator set and switch board	Dec. 1905	399.00
2 Motors, 3/4 h.p. each, gold and copper cells	Apl. 10, 1906	90.00
2 Motors, 1/6 h.p., laboratory	" " "	27.50
1 " 3/4 " silver cells	1906	45.00
2 " 7-1/2 h.p., elevator and chilian mill, with controller	Mch. 1907	280.00
1 Motor, 1/4 h.p. Exhaust fan	Sept. 25, 1906	92.50
3 " 1/8 " " fans, attic	Feb. 1908	29.03
1 Microscope	Apl. 1905	130.00
1 Analytical balance	Oct. 10, 1905	145.80
1 Assay button " "	June 14, 1906	138.50
1 " pulp " and weights	" " "	52.50
1 Bullion " 3' beam	May 6, 1905	935.00
1 Cupel furnace	Nov. 28, 1906	275.00
1 Crucible melting furnace	" " "	275.00
1 Portable voltmeter	Feb. 2 "	120.00
1 " ammeter	" " "	70.00
2 Stationary " recording	Dec. 1908	166.90
1 Pyrometer, with Heraeus element	Oct. 1905	150.00
2 Alberine stone top tables	Nov. 28, 1905	805.00
1 " " sink	" " "	244.00
1 Plate glass hood	Oct. 1906	1,000.00
Lot Platinum ware	Aug. 12, 1905	580.00
2 Steel condensers	Dec. 28, 1905	655.00
18 Porcelain rods	Aug. 5, 1906	256.50
275 Hard rubber rods, gold cells	July 24, 1909	536.25
190 " " " silver "	Feb. 15, "	85.50
10 Porcelain acid jars, fig. 9.1240 67.90 each	1905 & 1906	679.00

	Date	Cost
7 Porcelain filters with cocks, fig. 9.1799, 114.30 ea.	1905 & 1906	\$800.10
2 Porcelain jars, small, 17.00	"	34.00
31 " gold cells, fig. 9.1799 0.1377, @ 38.25	"	1,185.75
20 Earthenware silver cells, 57.15	Aug. 31, 1905	1,143.00
1 " acid jar with cock	" " "	19.50
1 " Supply tank, silver cells	July 23, 1906	110.85
7 Earthenware filters, capacity 33 gals. @ 20.50	Aug. 31, 1905	143.50
9 Earthenware acid pitchers @ 2.00	Oct. 25, 1906	18.00
6 China pitchers	Feb. 6, 1909	4.25
Laboratory		300.00
4 Rockwell Melting furnaces M 406	1905	1,100.00
1 " Reverberatory furnace	Mch. 21, 1907	1,120.00
3 Gold boiling furnaces	Oct. 1905	600.00
2 Dumping tables	Jan. 3, 1906	150.00
4 Pouring benches	Dec. 21, 1905	225.96
2 Furnace hoods	Dec. 11, 1908	9.64
4 Pans, 1 charcoal, 3 slag		13.50
6 Arc lamps	Oct. 23, 1905	256.00
121 moulds, various kinds		786.50
20 Ingot boxes	Apl. 30, 1906	207.70
2 Clipping "	" " "	17.76
13 pairs tongs, various kinds	Mch. 8, 1906	42.12
4 Pokers	" "	5.00
Lot Miscellaneous articles		50.00
1 Pickling tanks and racks	May 10, 1906	19.25
15 Trucks	1906	573.16
3 Ingot rolling trucks	"	60.00
1 Ingot vise	1909	16.00
1 Flux box	Oct. 1909	31.00
2 Supply closets	1907	15.00
3 Lead lined precipitating tanks	1906, '07, '08	312.73
1 Copper granulating tank	Mch. 1907	49.30
2 Slag pots		10.00
3 Smelter ladles	May 1908	28.11
1 Wood filter, silver chloride	Apl. 1910	14.13
2 lead lined copper tanks	Mch. 1907	98.60
2 lead baskets	1906	25.00
1 Bullion vault, movable	Feb. 5, 1906	358.66
1 Elevator	Feb. 24, "	1,445.00
Acid hood over gold cells	May 5, 1906	69.41
Housing over motor generator sets	Mch. 12, 1906	75.45
1 Iron sulphate tank	Dec. 1908	133.82
1 Table	June 1907	13.35
1 "	Sept. 1908	10.50
1 Scale case	Oct. 1907	58.00
1 Chilian mill	1908	254.99
	Total	\$32,027.54

Inventory of Supplies on hand in M. & R. Dept., U. S. Mint, Denver

July 1, 1910

Ingot Room. First floor

Graphite goods	\$316.69
Fire clay "	111.23
Mitts, gloves and aprons	128.21
Brushes	11.74
Sleeves	3.62
Fluxes	18.59
Charcoal	7.50
Lard Oil	27.60
Rope and Twine	2.40
	<hr/> \$627.58

Refinery. Second floor

Laboratory supplies	\$200.00
Graphite goods	1,113.52
Fire clay "	170.06
Mitts, gloves and aprons	513.39
Iron Sulphate	56.16
Porous cells	344.40
Salt	3.12
Fluxes	98.34
Charcoal	13.30
Acids	20.31
Zinc	388.60
Gelatine	1.95
	<hr/> \$2,923.15

Sweeps Cellar. Underground at west end of building

Cyanide, Sodium, and quicksilver	\$25.44
Carborundum bricks	18.00
	<hr/> \$43.44

Print of the United States at D E N V E R

Gold and Silver Bullion Balances in the Mether and Refiners hands and Deliveries to the Superintendent of the Mint by him during the month of October, 1910.

GOLD.

[illegible][illegible]

November 1
1910.

Belmont
Mass and N. York
35

MELTER AND REFINER'S OPERATIONS.

Mint of the United States

At Denver, Colorado, for 2nd, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of October, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.		RETURNED IN TOPS, BARS, CONDEMNED.	RETURNED BY MELTERS IN INGOTS, BARS.	RECOVERY.			APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	DELIVERED TO THE MELTERS.	Stand. ozs.			FROM SWEEPS, (Metal)	FROM OTHER SOURCES.	Stand. ozs.		
Gold Ingots,	326.306.57	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Bars,	1.256.71	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
TOTAL,	327.563.28	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Silver Ingots,		Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Silver Bars,	751.46	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
TOTAL,	751.46	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.

I certify the above to be a correct statement.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Melter and Refiner.

Mint	at Denver			of October,	10.
Melter and Refiner's					
Arnold, R.G.	-	-	-	100	90
Bartlett, H.D.	-	-	-	100	90
Borstadt, Geo.	-	-	-	100	94
Bush, W.M.	-	-	30	100	97
Crory, J.H.	-	4	-	100	90
Dardis, W.N.	-	3	30	100	90
Gray, G.B.	1	2	-	100	90
Hetrich, J.M.	-	-	-	100	100
Howard, M.	-	-	-	100	90
Howbert, D.T.	-	-	-	100	85
Lindhard, J.A.	-	-	-	100	90
Lundin, A.H.	14	-	-	100	90
O'Brian, W.S. (Separated from the service Oct. 20.)	17	-	-	without pay	
Russell, N.A.	-	-	-	100	88
Schell, E.P.	-	-	30	without pay	
Smith, E.S.	-	-	-	100	85
Spencer, G.N.	2	3	-	100	90
St. John, F.	-	5	-	100	90
Stoddard, X.T.	-	2	-	100	100
Taggart, B.H.	8	-	-	100	95
Whitaker, S.R.	-	3	-	100	90
Whitehead, H.R. (Detailed to Assayer's Dept.)	-	6	-	100	90
Wirth, B.P.	-	-	-	100	100

REFINERY

1. Product: Gold
Silver

Total

162,365.91 Fine
130,784.50 "
293,150.41 "

2. Costs: a. Labor \$1,792.98
b. Crucibles 69.12
c. Acids 425.98
d. Supplies 167.07
e. Mitts, gloves, aprons 81.44
f. Chemicals 15.00
g. Sweeps cellar 4.50
h. M. & R. Gen'l 277.78
i. Fuel 157.20
j. Power 447.82
k. Repairs 120.31
l. Light & ventilation 95.00
m. Incidentals 2.45
n. Assays 231.47
o. Vacation & holidays 104.59
p. 1/11 Shut-down expense 191.52

Total

\$4,184.23

3. New Equipment

66.16

Total expense

\$4,250.39

4. Crude bullion

253,864.26

5. Bullion, .992 and above, Gold

12,901.08

" " " "

Silver

0.00

6. Retreated

75,159.50

7. Bullion--no charges

71,316.54

Total operated upon

413,241.38

8. Cost per ounce total operated upon .010125

9. Average " " " " .009282

10. Cost per crude ounce .016482

11. Average " " " " .015664

INGOT ROOM

1. Amount of bullion melted, all gold

326,306.57

2. Amount of good ingots, Double Eagles

311,378.64

3. Cost of Ingots

Amount

Cost per oz.

a. Labor

\$396.08

.001272

b. M. & R. Gen'l

138.88

.000445

c. Mitts & gloves

21.20

.000068

d. Crucibles

17.28

.000055

e. Sweeps cellar

71.55

.000229

f. Supplies

19.60

.000062

g. Fuel

46.80

.000150

h. Power

39.58

.000127

i. Light & ventilation

12.00

.000038

j. Repairs

28.70

.000092

k. Incidentals

0.00

.000000

l. Vacation & holidays

1.20

.000003

m. Alloy copper

211.70

.000679

\$1,004.57.003226

4. New Equipment

0.00

Total expense

\$1,004.57

5. Percentage of good ingots, Gold, 95.4

6. Average cost of ingots for fiscal year, Gold .003401

Silver .004038

Oct/10

SWEEPS CELLAR

1. Product: Gold, std. ozs.	170.449	
Silver " "	210.37	
Tailings, avoird. lbs.		10,913

2. Costs:	a. Labor	\$69.56
	b. Power	29.64
	c. Light & Vent.	11.24
	d. Supplies	4.11
	e. Repairs	3.25
	f. Incidentals	0.00
	g. V. & Holidays	0.00
	Total	\$117.80

3. New equipment	0.00
Total expense	\$117.80

4. Tailings contained std. ozs. Gold	60.611
" " " Silver	131.52

5. Departments charged as follows:	
Helena Assay Office	\$41.75
Ingot Room	71.55
Refinery	4.50
Total	\$117.80

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at DENVER

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of November, 1910.

GOLD.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Nov. 1 1910	597	149	879	Ingois	110	010	760
Contained in Gold Deposits			70	035	839	Bars, Fine			
Contained in Silver Deposits			4	856	916	Bars, Standard			
Contained in			159	011	719	Bars, Unparted			
Clippings, blanks, etc.			42	536	920	Bars			
Re-Deposits & Con'd coin				35	931	Sweeps			
Helena Sweeps				55	958				
G. & S. Exchg.									
			873	683	162	Balance Nov. 30, 1910	19	763	672
								873	683
									402
									162

SILVER.

Received	STANDARD OUNCES.				Delivered	STANDARD OUNCES.			
	Balance	Nov. 1 1910	589	547	91	Ingois	99	870	80
Contained in Gold Deposits			3	372	38	Bars, Fine			
Contained in Silver Deposits			25	606	36	Bars, Standard			
Contained in			38	941	95	Bars, Unparted			
Clippings, blanks, etc.			23	218	10	Bars			
Re-Deposits				26	54	Sweeps			
Helena Sweeps				154	02				
G. & S. Exchg.									
			690	867	23	Balance Nov. 30, 1910	19	590	996
								690	867
									27
									3

CORRECT:

December 1, 1910.

Superintendent.

John M. Hotaler
Melter and Refiner

MELTER AND REFINER'S OPERATIONS.

of the United States

At Danvers, Colorado, Dec 2, 1910

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of November, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL			RECOVERY.		
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.
	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.

Gold Ingots,

Gold Bars,

TOTAL,

Silver Ingots,

Silver Bars,

TOTAL,

Approved:

I certify the above to be a correct statement.

Joel W. Milam
Melter and Refiner

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Mint

Denver, Colo.

Melter and Refiner's

of November

10.

Arnold, R.G.	-	3	-	100	90
Bartlett, H.D.	-	3	-	100	90
Borstadt, Geo.	-	-	-	100	94
Bush, W.M.	8	1	-	100	97
Crary, J.H.	1	-	-	100	90
Dardis, W.M.	-	-	-	100	90
Gray, G.B.	-	2	-	100	90
Hetrich, J.W.	-	-	-	100	100
Howard, M.	8	1	-	100	90
Howbert, D.T.	-	-	-	100	85
Lindhard, J.A.	-	-	-	100	90
Lundin, A.H.	-	-	-	100	90
Russell, M.A.	-	-	-	100	88
Schell, E.P.	-	2	-	without pay	100 85
Smith, E.S.	8	1	-	100	90
Spencer, G.N.	1	1	30	100	90
St. John, F.	-	6	15	100	100
Stoddard, X.T.	1	2	-	100	95
Taggart, B.H.	2	2	-	100	90
Whitaker, S.R.	1	3	30	100	90
Whitehead, H.R. (Detailed to Assayer's dept.)	-	5	-	100	100
Wirth, B.P.					

REFINERY

1. Product: Gold	173,023.34	fine	ozs.
Silver	149,400.40	"	"
Total	322,423.74	"	"

2. Costs:	a. Labor	\$1,763.61
	b. Crucibles	70.03
	c. Acids	351.48
	d. Supplies	179.71
	e. Mitts, gloves, aprons	70.40
	f. Chemicals	10.00
	g. Sweeps cellar	140.94
	h. M. & R. Gen'l	274.08
	i. Fuel	155.70
	j. Power	399.47
	k. Repairs	192.67
	l. Light & Ventilation	100.00
	m. Incidentals	17.05
	n. Assays	277.58
	o. Vacation & H'days	63.28
	p. 1/11 shutdown expense	191.52
	Total	\$4,253.30
3. New Equipment		0.00
Total expense		\$4,253.30

4. Crude Bullion	800,123.68
5. Bullion, .992 and above, Gold	11,037.40
" " " " Silver	0.00
6. Bullion retreated	81,214.98
7. Bullion, no charges	51,300.86
Total operated upon	943,686.92

8. Cost per ounce total operated upon	.012352
9. Average " " " " "	.009918
10. Cost per crude ounce	.021252
11. Average " " " "	.016303

SWEEPS CELLAR

		SWEEPS CELLAR	
1. Product	--	None finished	
2. Costs:	a.	Labor	\$50.01
	b.	Power	25.75
	c.	Light & Ventilation	10.00
	d.	Supplies	0.00
	e.	Repairs	13.92
	f.	Incidentals	0.00
	g.	Vacation & Holidays	41.06
		Total	<u>\$140.74</u>
3. New Equipment			0.00
		Total expense	<u>\$140.74</u>
4. All charged	to Refinery		

Nov./10

INGOT ROOM

1. Amount of bullion melted, all silver 247,363.15

2. Amount of good ingots: Quarters 120,672.90
Dimes 116,245.10 236,918.00

3. Cost of Ingots Amount Cost per oz.

a. Labor	\$351.72	.001484
b. M. & R. Gen'l	137.03	.000578
c. Mitts & Gloves	7.59	.000032
d. Crucibles	20.73	.000087
e. Sweeps cellar	0.00	.000000
f. Supplies	11.61	.000049
g. Fuel	40.80	.000172
h. Power	50.92	.000214
i. Light & Ventilation	10.25	.000043
j. Repairs	29.14	.000122
k. Incidentals	0.00	.000000
l. Vacation & Holidays	80.58	.000340
m. Alloy copper	198.27	.000836
Total	\$938.64	.003981

4. New Equipment 98.56

Total expense \$1,037.20

5. Percentage of good ingots, all silver 95.7

6. Average cost of ingots for fiscal year, Gold .003401
Silver .004013

7. Distributed to denominations

Quarters 477.27

Dimes 461.37

Total \$938.64

Nov /10

Mint of the United States, Denver, Dec. 23, 1910.

Books and Blanks at present used by the M. & R.'s Department,
of which sample sheets have been furnished to the Superintendent:

Books:

Form No. 20	Receipt for Gold Deposits
21	" " " Clippings
22	" " Silver "
188	Receipts & Deliveries of Gold Bullion
188	" " " " Silver "
183	M. & R.'s Record of Gold Ingot Melting
184	" " " Silver " "
469	Foreman's Record of Gold Melting
375	" " " Silver "
336	Gold Deposits Sent to Refinery
413-B	M. & R.'s Silver Vault Register
492-E	M. & R.'s Requisition for Supplies
740	M. & R.'s Bullion Ledger
663	Refinery Account
871	Refinery Gold Account
963	M. & R.'s Register of Deposits

Blanks:

Form No. 65	M. & R.'s Operations (ingot)
219	" Bullion balances (monthly)
722	" Operations (daily)
775	" Settlement
900	" " (annual)
929	Melts for Parting

MELTER AND REFINERS OF BULLION BALANCES.

Mint of the United States at Denver, Colorado

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of December, 19 10.

GOLD.

STANDARD OUNCES.					STANDARD OUNCES.		
Received					Delivered		
Balance					Ingo's		
Contained in Gold Deposits	Dec. 1, 19 10	763	672	402	Bars, Fine	97	667 770
Contained in Silver Deposits		67	558	840	Bars, Standard		
Contained in		5	255	960	Bars, Unparted		
Clippings, blanks, etc.		68	828	426	Bars		
		12	706	130	Sweeps		
			97	921			
			8	004			
		918	127	683			
	</						

SILVER.

				STANDARD OUNCES.						STANDARD OUNCES.		
Received						Delivered						
Balance	Dec. 1	19	590	996	46	Ingo's			399	278	85	
Contained in Gold Deposits			7	609	30	Bars, Fine						
Contained in Silver Deposits			25	171	19	Bars, Standard						
Contained in			32	352	85	Bars, Unparted						
Clippings, blanks, etc.			124	751	90	Bars						
	Re-Deposits					Sweeps						
	Fine bars		222	055	17							
	Gold exchg. bars			46	16							
	Supt.'s sweeps			4	69							
			1	002	987	72	Balance	Dec. 31, 1910	19	603	708	87
									1	002	987	72

CORRECT:

January 3, 1911.

Superintendent.

J. H. McArthur
Melter and Refiner.

U. S. MINT SERVICE.
Form No. 45
Ed. Oct. 22-30-38. - 8x10 1/4

MELTER AND REFINER'S OPERATIONS.

Miner of the United States

At Denver, Colo., Jan. 3, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of December, 1910, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN FORMS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots.	155,429.380	146,419.770	89,4500		95.110		61.573
Gold Bars.	None						33.037
TOTAL.							
Silver Ingots.	378,435.22	361,683.45	16,334.72		417.05		167.07
Silver Bars.	None						249.98
TOTAL.							

I certify the above to be a correct statement.

Approved:

J. W. H. H. H. H.
Chief Melter and Refiner.

Supervising.

TO THE DIRECTOR OF THE MINT, WASHINGTON.

To the DIRECTOR OF THE MINT, WASHINGTON, D.C.

Mint

Denver

Melter and Refiner's

December

10.

1	Arnold, R.G.	-	2	-		100	90
2	Bartlett, H.D.	-	3	-		100	90
3	Borstadt, Geo.	-	4	45		100	94
4	Bush, W.M.	7	1	-	without pay	100	97
5	Crary, J.H.	-	-	-		100	90
6	Dardis, W.N.	-	-	-		100	90
7	Gray, Geo.B.	-	1	30		100	90
8	Hetrich, J.M.	-	-	-		100	100
9	Howard, M.	-	4	30		100	90
10	Howbert, D.T.	-	-	30		100	85
11	Lindhard, J.A.	-	2	-		100	90
12	Lundin, A.H.	-	2	-		100	90
13	Russell, N.A.	-	-	-		100	88
14	Schell, E.P.	-	1	30	without pay	100	85
15	Smith, E.S.	2	-	-		100	90
16	Spencer, G.N.	1	1	-		100	90
17	St. John, F.	1	-	30		100	100
18	Stoddard, X.T.	1	1	45		100	95
19	Taggart, B.H.	-	-	-		100	90
20	Whitaker, S.R.	1	1	-		100	90
21	Wirth, B.P.	-	4	-		100	100

Dec./10

REFINERY

1. Product:	Gold	129,129.53 fine ozs.
	Silver	130,137.55 " "
	Total	259,267.08 " "

2. Costs:

a. Labor	\$1,586.73
b. Crucibles	58.75
c. Acids	343.45
d. Supplies	152.69
e. Mitts, gloves, aprons	49.15
f. Chemicals	5.00
g. Sweeps cellar	32.69
h. M. & R. Gen'l	274.08
i. Fuel	125.40
j. Power	295.05
k. Repairs	115.17
l. Light & ventilation	97.00
m. Incidentals	18.70
n. Assays	183.49
o. Vacation & holidays	89.58
p. 1/11 shut-down expense	191.52

Total

\$3,618.45

3. New Equipment

8.75

Total expense

\$3,627.20

4. Crude bullion

5. Bullion, .992 and above: Gold

214,917.38

Silver 12,119.88

0.00

6. Bullion retreated

66,581.65

7. Bullion, no charges

60,461.97

Total operated upon

354,080.86

8. Cost per ounce total operated on

9. Average " " " .010219

10. Cost per crude ounce " " " .009970

11. Average " " " .016836

.016809

SWEEPS CELLAR

1. Product -- None finished

2. Costs:

a. Labor	\$4.28
b. Power	9.61
c. Light & ventil'n	9.80
d. Supplies	0.00
e. Repairs	0.00
f. Incidentals	0.00
g. Vacation & H'days	9.00

Total

\$32.69

3. New Equipment

0.00

Total expense

\$32.69

4. All charged to Refinery.

Dec./10

INGOT ROOM

1. Amount bullion melted: Gold		151,711.43	
Silver		372,747.43	
Total		524,458.86	
2. Amount good ingots: Double Eagles		146,419.77	
Dimes		361,683.45	
Total		508,103.22	
3. Costs:			Total
	Gold	Silver	
	Amount Per oz.	Amount Per oz.	
a. Labor	\$132.25 .000903	\$440.25 .001217	\$572.50
b. M. & R. Gen'l	31.65 .000216	105.38 .000291	137.03
c. Mitts, gloves	2.06 .000014	3.03 .000008	5.09
d. Crucibles	10.36 .000070	24.19 .000066	34.55
e. Swps. Cellar	0.00 .000000	0.00 .000000	0.00
f. Supplies	16.60 .000113	27.11 .000074	43.71
g. Fuel	27.00 .000184	77.70 .000212	104.70
h. Power	11.53 .000078	38.39 .000106	49.92
i. Light & Vent.	3.46 .000023	11.54 .000031	15.00
j. Repairs	6.54 .000044	21.78 .000060	28.32
k. Incidentals	0.00 .000000	0.00 .000000	0.00
l. Vacation & H.	6.99 .000047	23.27 .000064	30.26
m. Alloy copper	85.52 .000584	224.54 .000620	310.06
Totals	\$333.96 .002280	\$997.18 .002757	\$1,331.14
			0.00
4. New Equipment			
Total expense			\$1,331.14
5. Percentage of good Ingots: Gold		96.5	
Silver		97.0	
6. Average cost of ingots for fiscal year, Gold		.003186	
Silver		.003600	

MELTER AND REFINERS OF BULLION BALANCES

Portrait of the United States at Denver, Colorado

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the Month of January, 1911.

GOLD:

[illegible]

SHINJI

STANDARD OUNCES.					
Received					
Balance	Jan. 1, 1911	603	708	87	
Contained in Gold Deposits		7	691	10	
Contained in Silver Deposits		84	177	79	
Contained in		32	570	66	
- Clippings, blanks, etc.					
Re-Deposits					
Goldsmith's Bars			2	45	
C.F. Exchange "			20	92	
		603	171	79	
Delivered					
Ingets					
Bars, Rifle					
Bars, Steamship					
Bars, Unpacked					
Bars					
Sweeps					
Balance	January 31,				
	1911				
		624	959	09	
		608	171	79	
STANDARD OUNCES.					
		43	212	70	

COMMENTS:

11. *Agropyron*

Судебный секретарь

General
Mottet und Kefner

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of _____, 19____, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

of the United States

METAL OPERATED UPON.		WEIGHT OF METAL.				RECOVERY.			
DELIVERED TO THE METERS.	RETURNED AT METERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.	
Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	
Gold Ingots,	353,248.24	341,380.84	11,602.18		265.18	657.06	261.02	622.22	
Gold Bars,	Recovery of 98,180 ozs. was from the chamber accumulations since Aug. 1, 1906.								
TOTAL,									
Silver Ingots,									
Silver Bars,									
TOTAL,									

Recovery of 179,020 gr. was from the chamber accumulations since Aug. 1, 1906.

139,86	219,64	309,50
--------	--------	--------

I certify the above to be a correct statement.

Approved:

Melter und Reffner.

Superintendent

TO THE DIRECTOR OF THE MINT, Washington.

Jan/11

REFINERY

1. Product: Gold	147,176.28	ozs., fine
Silver	157,175.45	"
Total	304,351.73	"

2. Costs:

a. Labor	\$1,743.82
b. Crucibles	65.63
c. Acids	330.17
d. Supplies	142.76
e. Mitts, gloves, aprons	67.23
f. Chemicals	5.00
g. Sweeps cellar	40.31
h. M. & R. Gen'l	277.78
i. Fuel	148.20
j. Power	443.24
k. Repairs	153.40
l. Light & Ventil'n	105.00
m. Incidentals	16.00
n. Assays	211.04
o. Vacation & Hol'days	60.73
p. 1/11 shut-down exp.	191.52
Total	3,901.86

3. New Equipment

6.05

Total expense \$3,907.91

4. Crude bullion

230,509.49

5. Bullion, .992 and above, Gold
Silver

16,220.01

0.00

6. Retreated

98,148.75

7. Bullion, no charges

31,186.29

Total operated upon

376,064.54

8. Cost per ounce total operated upon	
9. Average " " " "	.010375
10. Cost per crude ounce	.010034
11. Average " " " "	.016927
	.016828

Jan/11

INGOT ROOM

1. Amount of bullion melted, all Gold		353,248.24
2. Amount of good ingots, D.E.'s		341,380.88
3. Cost of Ingots	Amount	Cost per oz.
a. Labor	\$419.60	.001229
b. M. & R. Gen'l	138.88	.000406
c. Mitts & gloves	3.47	.000010
d. Crucibles	28.85	.000084
e. Sweeps cellar	48.37	.000141
f. Supplies	63.17	.000185
g. Fuel	60.60	.000177
h. Power	58.13	.000170
i. Light & Ventil'n	10.00	.000029
j. Repairs	24.16	.000070
k. Incidentals	0.00	.000000
l. Vacation & Holidays	182.66	.000535
m. Alloy Copper	246.38	.000721
Total	1,284.27	.003761
4. New Equipment	0.00	
Total expense	\$1,284.27	
5. Percentage of good ingots, Gold	96.6	
6. Average cost of ingots for fiscal year, Gold		.003364
Silver		.003600
Work for Coiner in Melting room, \$25.75		

SWEEPS CELLAR

1. Product: Gold, std. ozs.	206.240	
Silver " "	411.22	
Tailings, avoir. lbs.	15,768	
2. Costs:		
a. Labor	\$19.37	
b. Power	28.11	
c. Light & Ventil'n	9.16	
d. Supplies	6.75	
e. Repairs	9.54	
f. Incidentals	0.00	
g. Vacation & Holidays	15.75	
Total	88.68	
3. New Equipment	0.00	
Total expense	\$88.68	
4. Tailings contained std. ozs. Gold	44.568	
" " Silver	324.94	
5. Departments charged as follows:		
Ingot room	\$48.37	
Refinery	40.31	
Total	\$88.68	

MELTER AND REFINERS OF BULLION BALANCES.

SAINT OF THE UNITED STATES at D E N V E R

Gold and Silver Bullion Balances in the Melter and Refiners hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of February, 1911.

GOLD.

STANDARD OUNCES.				STANDARD OUNCES.			
				Delivered			
				Ingots			
				Dross, Waste Scrap, etc.			
				Bars, Standard			
				Bars, Unparted			
				Bars			
				Sweeps			
Received	Feb. 1, 1911	778	217	652			
Balance		56	022	871			
Contained in Gold Deposits		6	512	446			
Contained in Silver Deposits		46	525	934			
Contained in	Re-Deposits	78	423	190			
Clippings, blanks, etc.			113	800			
	G&S Exchg. bars						
		965	615	893	678	244	823
					965	615	893
	Balance						
	Feb. 28, 1911						
	19						

SILVER.

ОГЛАВЛЕНИЕ:

March 2

10

Eu. ribescent.

MELTER AND REFINER'S OPERATIONS.

At San Francisco, of the United States March 2nd, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of February, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.				RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEERS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	335.484.44	312.267.71	11.224.38		225.43	25.140	150.000	26.890	
Gold Bars,	Recovery of 23,140 grs. from fine silver bars returned at same place during 1910								
TOTAL,									
Silver Ingots,	74.700.00	72.200.00	2.500.00		14.000	4.000	10,000	18.98	
Silver Bars,	Recovery of 10,000 grs. from fine silver bars returned at same place during 1910								
TOTAL,									

I certify the above to be a correct statement.

Approved:

Superintendent.

John W. McNamee
Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

Absences, M. & R. Department, February, 1911.

	Time lost	Conduct	Work
Arnold, B.C.	---	100	92
Bartlett, W.D.	---	100	93
Borstadt, Geo.	---	100	94
Buch, W.M.	1 day leave	100	95
Crary, J.H.	---	100	90
Criddle, W.N.	---	100	92
Cray, Geo.B.	---	100	94
Hettrich, J.M.	---	100	100
Howbert, D.T.	---	100	87
Indland, J.A.	---	100	93
Jundin, A.B.	30-min. leave	100	92
Russell, W.A.	---	100	90
Schell, E.P.	1 day, 1-1/2 hrs.	100	88
Smith, E.S.	1 day	100	92
Spencer G.N.	1 day 1 hr.	100	92
St. John, P.	2 hrs.	100	100
Stoddard, X.T.	---	100	97
Taggart, E.H.	---	100	92
Whitaker, S.R.	1 hr.	100	92
Whitehead, H.R.	4 hrs.	100	93
Wirth, E.P.	6 hrs.	100	100

REFINERY

1. Product: Gold	126,888.35 fine ozs.
Silver	130,333.35 " "
Total	<u>257,224.70</u> " "

2. Costs:	
a. Labor	\$1,594.82
b. Crucibles	55.30
c. Acids	242.53
d. Supplies	133.48
e. Mitts, gloves, aprons	61.62
f. Chemicals	5.00
g. Sweeps cellar	128.60
h. M & R. Gen'l	277.73
i. Fuel	129.60
j. Power	364.96
k. Repairs	140.83
l. Light & Ventilation	95.00
m. Incidentals	14.85
n. Assays	173.40
o. Vacation & holidays	50.40
p. 1/11 shut-down expense	<u>191.52</u>
Total	\$3,659.69

3. New Equipment	<u>105.53</u>
Total expense	\$3,765.22

4. Crude bullion	182,224.28
5. Bullion, .992 and above, Gold	2,674.48
6. Retreated	85,749.70
7. Bullion, no charges	<u>49,303.85</u>
Total operated upon	319,952.31

8. Cost per ounce total operated upon	.011438
9. Average " " " "	.010200
10. Cost per crude ounce	.020083
11. Average " " "	.017197

Mch 10, 1911

Feb/11

INGOT ROOM

1. Amount bullion melted: Gold	323,689.62	
Silver	74,730.63	398,420.25

2. Amount of good ingots: D. Eagles	312,257.71	
Dimes	72,209.05	384,466.76

3. Cost of Ingots:

	Gold		Silver		Total
	Total	Per oz.	Total	Per oz.	
a. Labor	\$313.78	.001004	\$104.59	.001448	\$418.37
b. M. & R. Gen'l	100.41	.000321	33.47	.000463	133.88
c. Mitts & gloves	6.95	.000022	0.71	.000009	7.66
d. Crucibles	13.82	.000044	3.45	.000047	17.27
e. Sweeps cellar	37.00	.000118	12.33	.000170	49.33
f. Supplies	12.51	.000040	8.64	.000119	21.15
g. Fuel	35.70	.000114	12.60	.000174	48.30
h. Power	34.31	.000109	11.43	.000158	45.74
i. Light & Ventil'n	6.75	.000021	2.25	.000031	9.00
j. Repairs	19.79	.000063	6.59	.000091	26.38
k. Incidentals	.45	.000001	.15	.000002	.60
l. Vacation & h'days	20.54	.000066	6.84	.000094	27.38
m. Alloy copper	220.82	.000707	20.07	.000278	240.89
Totals	\$822.83	.002635	\$223.12	.003089	\$1,045.95
4. New equipment					7.75
			Total expense		\$1,053.70

5. Percentage of good ingots: Gold	96.4
Silver	96.6

6. Average cost of ingots for fiscal year: Gold	.003203
Silver	.003569

SWEEPS CELLAR

1. Product: Gold, std. ozs.	115.397
Silver " "	135.43
Tailings, avoird. lbs.	15,541

2. Costs:	
a. Labor	\$149.40
b. Power	38.24
c. Light & V.	12.16
d. Supplies	2.95
e. Repairs	5.50
f. Incidentals	0.00
g. Vacation & H.	9.00
Total	\$267.25

3. New Equipment	0.00
Total expense	\$267.25

4. Tailings contained, std. ozs. Gold	41.58
" " Silver	124.83

5. Departments charged as follows:	
Refinery	\$128.60
Dep. Melting room	89.32
Ingot room	49.33
Total	\$267.25

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

March 20, 1911.

Estimate of Supplies required annually for Melter and Refiner's
Department of the Denver Mint:

Graphite Goods:

Crucibles, Mint special, No. 80	350
" " " 14	20
Covers, No. 80 Crucibles	80
Gold stirrers, round, Mint special	125
Dipping cups, No. 3 - 31.5 ozs. Troy	200
" " " 4 - 35. " "	100
Rings for No. 80 M.S. Crucibles, 2",	250

Fire Clay Goods:

Fire brick (includes soaps and splits)	9000
Fire clay, tons,	5
Quarter slides, "S.170"	300
" " "S.20"	500
Furnace bodies, Sets "S.163" A,B,C,& D	6
" top slabs "S.163 G"	20
Pedestals, "S.195"	110
Arch tile, "S.41 D" No. 2937	60
" " " " " 2938	60
Hood tile, "S.41 A" " 2934	20
" " "S.41 B" " 2935	30
" " "S.41 C" " 2936	30

Imported Articles:

Porous cells for making Gold chloride	100
Earthenware tanks	3
" filters	3

Acids:

Hydrochloric C.P., lbs.	1000
Nitric, C.P.	1000
Sulphuric, C.P.,	1000
Ammonia, C.P.,	1000
Hydrochloric, Com., tons	21
Nitric, Com.,	19
Sulphuric, Com.,	2

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Estimate of Supplies - 2

Mitts and Gloves:

Asbestos Mitts	40
Carpet	225
Buck gloves, pairs	200
White rubber gloves, pairs	150
Black	125
Long rubber gauntlets	6
" " " 22", extra heavy	6

Miscellaneous:

Aprons	425
Sleeves, pairs	450
Borax glass, lbs.	2500
Soda bicarbonate, lbs.	5500
Nitre,	2000
Lard oil, gals.	50
Bone ash, lbs.	2300
Charcoal, MXX, lbs.	1000
" MBXX, "	3000
Iron sulphate, tons	3
Crushed rock salt, tons	5
Slab zinc,	4
Copper sulphate, lbs.	500
Ammonium chloride, "	500
Magnesite, "	100
Gelatine, "	500
Silica,	1000
Magnesite arch brick	500
Cheese cloth, yards	2400
Sheeting,	300
China pitchers, 2 gals.	15
Earthenware pitchers, 4 gals.	15
Rubber tubing, assorted, feet	150
Laboratory apparatus	\$25.00

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

March 28, 1911.

M.C. No.1.

Received of Frank M. Downer, Superintendent of the Mint
of the United States at Denver, Colorado, the following metals for
the making of cent ingots, towit:

Copper	1,458,333.33	Troy ounces	
Zinc	43,822.91	"	"
Tin	<u>29,392.70</u>	"	"
Total	1,531,548.94	"	"

James Wilson
Melter and Refiner.

INVENTORY of Machinery, Furniture, Supplies, and
 SWEEPS CELLAR of the U. S. Mint, at Denver, Colorado, on April
 1st, 1911, being the date on which the Melter and Refiner re-
 linquished control of the same to the Superintendent

1 Elspass mill, with 15 h.p. motor
 1 centrifugal pump, with 1-1/2 h.p. motor
 1 sack hoist, with 1 h.p. motor
 1 copper amalgamating plate, 30" x 120"
 1 " " " 54" x 96"
 1 settling tank, 5 ft. x 18 ft.
 1 " " 4 ft. 10 in. x 18 ft.
 1 steam dryer
 1 - 4 ft. Pierce amalgamator
 1 wheel barrow
 1 copper pan for concentrates
 1 wash tub
 3 water buckets
 2 gold pans
 1 amalgamating pan
 12 sample pans
 1 Jones sampler
 3 long handled shovels
 2 short " "
 2 fire shovels
 400 tailing sacks
 1 platform scale
 1 electric fan
 1-3 lb. hammer
 2 monkey wrenches
 2 S wrenches
 2 oil cans
 1 grinding tool for mill
 6 carborundum blocks, 4" x 8"
 5 arc lights
 19 incandescent lights
 100 ft. 1-1/2" water pipe
 80 " 2" " "
 65 " 1/2" " "
 625 " 1" steam " "
 80 " 3" " "
 1 Mason steam trap
 1 telephone
 2 chairs
 1 tool locker
 1 desk
 2 prs. rubber boots
 1 table 2 brooms
 2 whisk brooms
 1 pr. scissors
 1 piece 40 mesh screen, 24" x 36"
 1 " 30 " " 36" x 60"
 9 yards bed ticking
 2 - 6 oz. bottles
 5 - 12 " "
 2 screen brushes
 2-1/2 lbs. sodium metal
 15 " caustic soda
 5 " cyanide
 88 " mercury
 1 piece rubber 3" x 25"
 5 - 8" soup plates
 53 stove bolts, 2 x 5/16
 175 sacks Refinery #3 tailings, gross wt. 17,338 lbs., moisture
 10-1/2%; Au, 5.97; Ag, 45.98
 47 sacks Ingot #4 tailings, gross wt. 4,839 lbs; moisture 5%;
 Au, 4.39; Ag, 17.01

1 horseshoe magnet
 1 pr. rubber gloves
 1 wash sink
 1 lead lined box
 20 ft. 3/4" hose
 10 " 1" "
 2 hose nozzles
 1 clock

2 retorts (in Assayer's
 acid room)

Print of the United States at DENVER

GOLD

SILVER.

CORRECT:

Superintendent.

Seewitz
Melter and Refiner.

gum

Absences, M. & R. Department, March, 1911.

	Time lost	Conduct	Work
Arnold, E.C.	1-1/2 hrs.	100	92
Bartlett, H.D.	---	100	93
Borstadt, Geo.	1 hr.	100	94
Bush, W.M.	---	100	95
Crary, J.H.	4 hrs.	100	90
Dardis, W.N.	---	100	92
Gray, G.E.	---	100	94
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	87
Lindhard, J.A.	---	100	93
Lundin, A.H.	---	100	92
Russell, N.A.	1 da.	100	90
Schell, E.P.	1-1/2 hrs.	100	88
Smith, E.L.	---	100	92
Spencer, G.N.	5 hrs.	100	92
St. John, F.	3 das. 3-1/2 hrs.	100	100
Stoddard, X.T.	1-1/2 hrs.	100	97
Taggart, B.H.	---	100	92
Whitaker, S.R.	---	100	92
Whitehead, H.R.	---	100	93
Wirth, B.P.	1/2 hr.	100	100

REFINERY

1. Product: Gold		145,729.22	fine	ozs.
Silver		111,821.15	"	"
Total		256,950.37	"	"
2. Costs				
a. Labor		\$1,657.40		
b. Crucibles		79.48		
c. Acids		380.47		
d. Supplies		142.70		
e. Mitts, gloves, aprons		73.32		
f. Chemicals		20.00		
g. Sweeps cellar		60.80		
h. M. & R. Gen'l		277.78		
i. Fuel		158.10		
j. Power		517.16		
k. Repairs		126.33		
l. Light & ventilation		100.00		
m. Incidentals		39.15		
n. Assays		203.01		
o. Vacation & holidays		21.33		
p. 1/11 shut down expense		191.52		
Total		\$4,248.55		
3. New Equipment		51.19		
Total expense		\$4,299.74		
4. Crude bullion				
		213,101.41		
5. Bullion, .992 and above, Gold		16,954.30		
6. Retreated		55,575.05		
7. Bullion, no charges		75,056.97		
Total operated upon		360,687.73		
8. Cost per ounce total operated upon				
		.011779		
9. Average " " " " "				
		.010385		
10. Cost per crude ounce				
		.019936		
11. Average " " " "				
		.017517		

April 7, 1911

INGOT ROOM

Mch/11

1. Amount bullion melted, Gold	276,953.560	
Silver	166,464.53	443,418.090
2. Amount good ingots: Double Eagles	219,757.790	
Eagles	17,490.200	
Half Eagles	18,274.860	
Quarter Eagles	12,218.620	267,741.470
Dimes		160,195.80
Total		427,937.270

3. Cost of Ingots	Gold		Silver		Total
	Total	Per oz.	Total	Per oz.	
a. Labor	\$262.06	.001001	\$219.32	.001369	\$487.38
b. M. & R. Gen'l	76.39	.000285	62.50	.000390	138.89
c. Mitts, gloves	5.83	.000021	3.06	.000019	8.89
d. Crucibles	17.28	.000064	13.82	.000086	31.10
e. Sweeps cellar	28.66	.000107	23.45	.000146	52.11
f. Supplies	29.32	.000109	26.79	.000167	56.11
g. Fuel	33.00	.000123	27.00	.000168	60.00
h. Power	26.02	.000097	21.28	.000132	47.30
i. Light & Ventil.	2.75	.000010	2.25	.000014	5.00
j. Repairs	22.96	.000085	18.78	.000117	41.74
k. Incidentals	0.00	.000000	0.00	.000000	0.00
l. Vacation & H'days	2.94	.000010	2.40	.000014	5.34
m. Alloy copper	129.90	.000485	135.63	.000846	265.53
Total	\$643.11	.002401	\$556.28	.003472	\$1,199.39

4. New Equipment

Total expense

214.65

\$1,414.04

5. Percentage of good ingots: Gold, 96.6; Silver, 96.2

6. Average cost of ingots for fiscal year: Gold .003076
Silver .003557

7. Cost distributed: Double Eagles	\$514.49
Eagles	42.87
Half Eagles	42.88
Quarter Eagles	42.87
Dimes	556.28
Total	\$1,199.39

SWEEPS CELLAR

1. Product: Gold, std. ozs.	328.682
Silver " "	700.88
Tailings, avoir. lbs.	20,078

2. Costs: a. Labor	\$65.40
b. Power	33.01
c. Light & Ven.	7.95
d. Supplies	5.85
e. Repairs	0.00
f. Incidentals	.70
g. Vacation & H'days	0.00
Total	\$112.91

3. New Equipment	0.00
Total expense	\$112.91

4. Tailings contained, std. ozs. Gold	62.569
Silver	439.49

5. Departments charged as follows: Refinery	\$60.80
Ingot room	52.11
Total	\$112.91

GOLD.

911-1000

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U. S. MINT SERVICE.
Form No. 65.
Ed. Oct. 22-08-500.-8x10 1/2.

MELTER AND REFINER'S OPERATIONS.

At Denver Colorado, May 1 1911
Minist of the United States

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of April 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETAINED IN LOSE, BARS, CONDAMNED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPERS.	FROM OTHER SOURCES. <i>249.34 King</i>
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	215,399.360	207,002.460	8,233.880	163.050	11,212	93.457	58.381
Gold Bars,							
TOTAL,							
Silver Ingots,	75,131.06	72,289.95	2,776.91	64.20	43.44	34.21	
Silver Bars,							
TOTAL,							13.445

I certify the above to be a correct statement.

R. L. - Sugarman worked down days on these ingots.

Williamson
Melter and Refiner.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington

Absences, M. & R. Department, April, 1911.

	Time Lost	Conduct	Work
Arnold, R.G.	1-1/2 hrs.	100	92
Bartlett, H.D.	---	100	93
Borstadt, Geo.	---	100	94
Bush, W.M.	1/2 hr.	100	95
Crery, J.H.	---	100	90
Dardis, W.N.	---	100	92
Gray, G.B.	3 das. 2 hrs.	100	94
Hettrich J.M.	---	100	100
Howbert, D.T.	1 hr.	100	87
Lindhard, J.A.	---	100	93
Lundin, A.H.	---	100	92
Russell, N.A.	---	100	90
Schell, E.P.	1/2 hr.	100	88
Smith, E.S.	---	100	90
Spencer, G.N.	1 da., 2-1/2 hrs.	100	92
St. John, F.	2 hrs.	100	100
Stoddard, X.T.	5 hrs.	100	97
Taggart, B.H.	---	100	92
Whitaker, S.R.	1 da., 2 hrs.	100	92
Whitehead, H.R.	2 hrs.	100	93
Wirth, B.P.	1/2 hr.	100	100

May 2, 1911.

REFINERY

1. Product: Gold	152,418.97	fine	ozs.
Silver	<u>114,601.30</u>	"	"
Total	267,020.27	"	"

2. Costs:	
a. Labor	\$1,649.32
b. Crucibles	69.12
c. Acids	306.98
f. Supplies	163.64
e. Mitts, gloves, aprons	75.98
f. Chemicals	5.00
g. Sweeps cellar	87.60
h. M. & R. Gen'l	433.34
i. Fuel	138.00
j. Power	428.18
k. Repairs	123.21
l. Light & Ventilation	100.00
m. Incidentals	15.15
n. Assays	161.17
o. Vacation & holidays	30.51
p. 1/11 Shut-down exp.	<u>191.52</u>

Total \$3,978.72

3. New Equipment 363.10

Total expense \$4,341.82

4. Crude bullion, 179,891.82

5. Bullion, .992 and above, Gold 14,028.65

6. Retreated 64,016.45

7. Bullion, no charges 49,412.23

Total operated upon 307,349.15

8. Cost per ounce total operated upon .012945

9. Average " " " " " .010618

10. Cost per crude ounce .022117

11. Average " " " .017930

Apr/11

INGOT

1. Amount bullion melted:	Gold	215,399.36	
	Silver	75,131.06	
	Bronze	64,716.90	355,247.32

2. Amount good ingots:	Double Eagles	188,827.47	
	Eagles	12,100.71	
	Half Eagles	6,074.28	207,002.46
	Dimes		72,289.95
	Bronze		62,637.00

Total	341,929.41
-------	------------

3. Cost of Ingots:	Gold		Silver		Bronze		Total
	Amount	Per oz	Amount	Per oz	Amount	Per oz	
a. Labor	\$151.68	.000732	\$75.84	.001049	\$88.48	.001412	\$316.00
b. M&R Gen.	104.00	.000502	52.00	.000719	60.66	.000968	216.66
c. Mitts & G.	2.76	.000013	0.45	.000006	3.21	.000051	6.42
d. Crucibles	10.36	.000050	3.45	.000047	10.36	.000165	24.17
e. Swp. Cellar	0.00	.000000	0.00	.000000	0.00	.000000	0.00
f. Supplies	9.10	.000043	1.50	.000020	9.71	.000155	20.31
g. Fuel	24.60	.000118	12.60	.000174	22.20	.000354	59.40
h. Power	16.31	.000078	8.16	.000112	9.51	.000151	33.98
i. Light & V.	4.34	.000020	2.17	.000030	2.54	.000040	9.05
j. Repairs	13.05	.000063	6.53	.000090	7.62	.000121	27.20
k. Incid'ls	1.08	.000005	.54	.000007	.63	.000010	2.25
l. Vac. & H.	.56	.000002	.28	.000003	.32	.000005	1.16
m. Alloy copper	180.83	.000873	54.86	.000758	.00	.000000	235.69

Totals	\$518.67	.002505	\$218.38	.003020	\$215.24	.003436	\$952.29
--------	----------	---------	----------	---------	----------	---------	----------

4. New Equipment

43.94

Total expense

\$996.23

5. Percentage of Good ingots:	Gold	96.1
	Silver	96.2
	Bronze	96.7

6. Average cost of ingots for fiscal year:	Gold	.003013
	Silver	.003530
	Bronze	.003436

7. Cost distribution:	Double Eagles	\$473.03
	Eagles	30.60
	Half Eagles	15.04
	Dimes	218.38
	Bronze	215.24
Total		\$952.29

MELTER AND REFINER'S OPERATIONS.

of the United States

At San Francisco, California, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of May, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS,	RETURNED IN TORS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEP.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	119,402.410	116,406.990	30,000.000		73,870	44,916	27,706	1248
Gold Bars,								
TOTAL,								
Silver Ingots,	115,855.04	111,715.25	3,934.39		407.40	68.17	384.0	100.83
Silver Bars,	1,422.55	1,422.55						
TOTAL,	117,277.59	113,137.80	3,932.39		507.40	68.17	38.40	100.83

I certify the above to be a correct statement.

Approved:

Superintendent.

James M. Leach
Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

MELTER AND REFINER'S BALANCES.

Mint OF THE UNITED STATES AT Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of May, 1911.

GOLD.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance	Contained in Gold Deposits	Contained in Silver Deposits	Ingots	Bars, Fine	Bars, Standard	Bars, Unparted
May 1, 1911	483	983	996	146	824	650	
	69	038	941	191	321	020	
	6	250	977				
Re-Deposits	59	988	869				
Con'd Gold	97	763	010				
G. & S. Exchg. bars	68	390					
Colner's bars	3	036	081				
	720	130	664	Balance May 31, 1911	381	985	134
					720	130	864

SILVER.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance	Contained in Gold Deposits	Contained in Silver Deposits	Ingots	Bars, Fine	Bars, Standard	Bars, Unparted
May 1, 1911	090	164	99	168	935	60	
	7	573	60	1	422	55	
	35	407	66				
Re-Deposits	26	610	87				
Con'd Gold	87	160	70				
G. & S. Exchg. bars	245	42					
	1 245	153	24	Balance May 31, 1911	1 074	795	09
					1 245	153	24

June 3, 1911.

Superintendent.

J. M. Beckwith
Melter and Refiner.

Attendance Account, M. & R. Dept., May, 1911.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	2 das.	100	92
Bartlett, H.D.	1-1/2 hrs.	100	94
Borstadt, G.	---	100	94
Bush, W.M.	---	100	97
Crary, J.H.	1-1/2 hrs.	100	92
Dardie, W.M.	---	100	92
Gray, G.B.	2 hrs.	100	95
Detrich, J.M.	3 hrs.	100	100
Howbert, D.T.	6 hrs.	100	90
Lindhard, J.A.	---	100	94
Lundin, A.H.	1-1/2 hrs.	100	92
Russell, H.A.	---	100	92
Schell, E.P.	1-1/2 hrs.	100	90
Smith, E.S.	---	100	92
Spencer, G.N.	1 hr.	100	93
St. John, F.	1 da., 1/2 hr.	100	100
Stoddard, X.T.	1 da.	100	97
Taggart, B.H.	3 hrs.	100	93
Whitaker, S.R.	2 das.	100	93
Whitehead, H.R.	2 hrs.	100	93
Wirth, B.P.	1 hr.	100	100

May/11

REFINERY

1. Product: Gold	143,818.85	fine ozs.
Silver	<u>99,095.35</u>	" "
Total	242,914.20	" "

2. Costs:

a. Labor	\$1,781.43
b. Crucibles	79.49
d. Acids	361.35
a. Supplies	164.10
e. Mitts, gloves, aprons	68.40
f. Chemicals	15.00
g. Sweeps cellar	56.43
h. M. & R. Gen'l	418.75
i. Fuel	143.10
j. Power	477.82
k. Repairs	89.15
l. Light & Ventilation	100.00
m. Incidentals	8.45
n. Assays	220.71
o. Vacation & Holidays	87.25
p. 1/11 shut-down exp.	191.52
Total	<u>\$4,262.95</u>

3. New equipment

266.67

Total expense

\$4,529.62

4. Crude bullion	192,053.13
5. Bullion, .992 and above, Gold	16,314.35
6. Retreated	25,908.85
7. Bullion, no charges	<u>52,955.19</u>
Total operated upon	287,231.52

8. Cost per ounce total operated upon	.014841
9. Average " " " " "	.010948
10. Cost per crude ounce	.022196
11. Average " " "	.018304

May/11

INGOT ROOM

1. Amount bullion melted: Gold 119,493.41
 Silver 117,277.59
 Bronze 138,862.15

2. Amount good ingots: Double Eagles 116,408.99
 Dimes 113,137.80
 Bronze 134,134.30

	Gold		Silver		Bronze		Total
	Amount	Per oz.	Amount	Per oz.	Amount	Per oz.	
a. Labor	\$69.88	.000600	\$100.26	.000886	\$133.69	.000996	\$303.83
b. M&R Gen'l	48.16	.000413	69.09	.000610	92.12	.000686	209.37
c. Mitts & Gloves	.71	.000006	3.81	.000033	4.82	.000035	9.34
d. Crucibles	6.91	.000059	10.36	.000091	13.82	.000103	31.09
e. Swps. Cellar	21.09	.000181	30.35	.000268	0.00	.000000	51.44
f. Supplies	3.24	.000027	8.09	.000071	16.97	.000126	28.30
g. Fuel	13.50	.000115	19.80	.000175	37.20	.000277	70.50
h. Power	8.35	.000071	11.97	.000105	15.97	.000119	36.29
i. Light & Vent'l'n	1.16	.000009	1.67	.000014	2.23	.000016	5.06
j. Repairs	5.15	.000044	7.39	.000065	9.86	.000073	22.40
k. Incidentals	0.00	.000000	0.00	.000000	0.00	.000000	0.00
l. Vacation & Hol.	5.49	.000047	7.88	.000069	10.51	.000078	23.88
m. Alloy copper	17.22	.000147	22.88	.000202	0.00	.000000	40.10
Totals	\$200.86	.001725	\$293.55	.002594	\$337.19	.002513	\$831.60

4. New Equipment

10.68

Total expense \$842.28

5. Percentage of good ingots: Gold 97.4
 Silver 96.4
 Bronze 96.5

6. Average cost of ingots for fiscal year: Gold .002938
 Silver .003460
 Bronze .002807

7. Cost distribution: Double Eagles \$200.86
 Dimes 293.55
 Bronze 337.19
 Total \$831.60

Inventory of Supplies on hand in Melter and Refiner's Department,
U. S. Mint, Denver, Colorado, July 1, 1911.

Ingot Room - First Floor

Graphite goods	\$318.70
Fire clay "	67.35
Mitts, gloves and aprons	55.05
Brushes	2.25
Sleeves	5.25
Fluxes	19.10
Charcoal	9.45
Lard Oil	12.00
Rope	2.40

\$491.55

Refinery - Second Floor

Laboratory Supplies	\$150.00
Graphite Goods	1,303.40
Fire clay "	61.98
Mitts, gloves, and aprons	440.10
Iron sulphate	17.70
Porous cells	193.72
Sleeves	13.16
Fluxes	71.20
Charcoal	11.70
Acids	110.81
Zinc	12.50
Gelatine	35.00

\$2,421.27

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

The Melter and Refiner received from the Superintendent during the fiscal year 1911:-

GOLD ACCOUNT

In Bullion		2,680,362.408	
Returned prior to Settlement	2,313,937.734		
" at "	366,717.290	2,680,655.024	
Surplus in gold recovered			292.616

SILVER ACCOUNT

In Bullion		2,429,134.89	
Returned prior to Settlement	1,312,359.78		
" at "	1,117,268.22	2,429,629.00	
Surplus in silver recovered			493.11

The surplus was recovered from fractional gains in weights of deposits, unreported fractions of assays, from the Refinery flues that have been in use four years, and the Ingot melting room stacks that have been in use since we began operations in this Mint.

The Sweeps cellar was operated under the supervision of the Melter and Refiner during the first nine months, and under the supervision of the Superintendent during the last three months of this year, and treated 110,368 lbs. of sweeps, and extracted therefrom 1,510.888 standard ounces of gold, and 2,365.79 standard ounces of silver; and the resulting mill tailings contained 546.423 standard ounces of gold, and 2,179.30 standard ounces of silver.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Refinery operations, covering a period of eleven months, were as follows:

GOLD ACCOUNT

Delivered to the Refinery		1,796,406.861
Returned prior to Settlement	1,702,100.330	
" at Settlement in bars	94,265.894	
" " " " sweeps	165.166	1,796,531.390
Surplus in gold recovered		124.529

SILVER ACCOUNT

Delivered to the Refinery		1,522,367.56
Returned prior to Settlement	1,414,497.92	
" at Settlement in bars	106,312.91	
" " " " sweeps	557.03	1,521,367.86
Wastage in silver		999.70

The Refinery also returned 280 lbs. Copper; 96.52 ounces Platinum; and 4.18 ounces Palladium.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

The following melts were made:

	Gold	Silver	Gold and Silver	Total
Deposits	3,655	660		4,315
Anodes	66	608		674
Cathodes	36	34		70
Ingot	329	384		713
Mint Bars	233	275		508
Slimes	129	163		292
Settlement	20	24	2	46
Sweats			543	543
Miscellaneous			53	53
Totals	4,468	2,148	598	7,214

Ingot Melts condemned, None; Remelts, None.

Number of employees in the Refinery - - - 15

" " " " Department, exclusive of - - - 6

Refinery - - - - -

U. S. Mint Service
Form No. 519.
Ed. Nov. 6-20-200-10 1/2 x 8.

MELTER AND REFINER'S BALANCES.

Mint OF THE UNITED STATES AT Denver
Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the
Superintendent of the Mint by him during the Month of June 1911.

GOLD.

STANDARD OUNCES.				STANDARD OUNCES.			
Received		Delivered		Received		Delivered	
Balance	June 1, 1911.	381	985 134	Balance	June 1, 1911.	112	187 964
Contained in Gold Deposits	60	147 727		Contained in Gold Deposits			
Contained in Silver Deposits	5	689 972		Contained in Silver Deposits			
Contained in	31	722 506		Contained in			
Chippings, blanks, etc.				Chippings, blanks, etc.			
Re-Deposits				Re-Deposits			
G. Exchg. bars		85 031		G. Exchg. bars		55 061	
Supt. Swps. bars		37 452		Supt. Swps. bars			
Surplus in Settlement		292 616		Surplus in Settlement			
	479	960 315			479	960 315	

SILVER.

STANDARD OUNCES.				STANDARD OUNCES.			
Received		Delivered		Received		Delivered	
Balance	June 1, 1911.	1	074 795 09	Balance	June 1, 1911.	1	117 268 22
Contained in Gold Deposits	6	589 68		Contained in Gold Deposits			
Contained in Silver Deposits	21	128 87		Contained in Silver Deposits			
Contained in	14	597 40		Contained in			
Chippings, blanks, etc.				Chippings, blanks, etc.			
Re-Deposits				Re-Deposits			
G. Exchg. bars		28 53		G. Exchg. bars		291 23	
Supt. Swps. bars		26 47		Supt. Swps. bars			
Surplus in Settlement		493 11		Surplus in Settlement			
	1	117 660 16			1	117 660 15	

Approved:

June 29

1911.

Superintendent.

Perkins

Melter and Refiner

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

490

Memorandum Receipt

June 30, 1911.

RECEIVED of Frank M. Downer, Superintendent, U. S. Mint,
Denver, Colorado, all bullion delivered in settlement, exclusive of
dime ingots, silver to Mindeloff, gold samples to Bureau, and sweeps, as
follows:

	Gold	Silver
Delivered in Settlement	366,717.290	1,117,268.22
Dime Ingots	208,113.95	
To Mindeloff	14.30	
To Bureau	6.145	
Sweeps	245.785	730.60
	251.930	208,858.85
Net bullion received by M. & R.	366,465.360	908,409.37

Joseph W. Mindeloff
Melter and Refiner.

MINT OF THE UNITED STATES AT DENVER

MELTER AND REFINER'S DEPARTMENT,

Receipt No. 1.

July 1, 1911.

RECEIVED of Frank M. Downer, Superintendent of the Mint of the United States at Denver, in redelivery after settlement, June 30, 1911, three hundred and sixty-six thousand four hundred and seventy-one and five hundred and five thousandths standard ounces of gold, and nine hundred and eight thousand four hundred and twenty-three and sixty-seven hundredths standard ounces of silver, itemized as follows:

	Standard ounces Gold	Silver
Gold Deposits -----	613,616.174 ----	6,106.56
Silver " -----	63,524.862 ----	28,662.69
Boise Re-Deposits -----	41,727.707 ----	2,481.90
Deadwood " -----	43,431.545 ----	15,027.75
Helena " -----	3,132.057 ----	4,139.22
Salt Lake " -----	6,065.628 ----	3,313.09
Seattle " -----	132,849.028 ----	19,579.12
Mass Melts -----	6,791.937 ----	4,050.83
Treasury Purchase Silver -----		444,819.01
Mint Fine Silver -----		273,554.85
Refinery Settlement, Gold -----	86,297.563 ----	13,743.66
" " Silver -----	7,429.894 ----	91,891.07
" " Copper -----	103.900 ----	54.47
Experimental No. 32 -----		427.02
Fine Gold Specimen -----	15.184	
Assayer's Bars -----	364.401 ----	140.78
Alloy Silver -----		87.72
Proof Gold -----	39.200	
" Silver -----		38.23
Fine Silver -----		291.40
Ingot Samples -----	76.280	
Fine Silver to Chas. Mindelleff -----		14.30
Gold Samples to Mint Bureau -----	6.143	
Totals	366,471.505 ----	908,423.67

James Milburn
Melter and Refiner.

Treasury	181	1	052 80
Purchase	2	1	083 85
Silver	3	1	089 40
	4	1	020 35
	5	1	091 130
	6	1	051 50
	7	1	075 80
	8	1	056 90
	9	1	088 40
	190	1	051 65
	1	1	073 65
	2	1	089 15
	3	1	074 30
	4	1	093 25
	5	1	046 20
	6	1	077 35
	7	1	086 00
	8	1	101 60
	9	1	074 90
	200	1	072 15
	1	1	066 90
	2	1	089 75
	3	1	106 35
	4	1	104 60

Forward

Forward

Treasury	205	1	063 00
Purchase	6	1	087 95
Silver	7	1	074 65
	8	1	113 85
	9	1	054 90
210		1	101 65
1		1	054 45
2		1	102 40
3		1	073 25
4		1	080 20
5		1	087 70
6		1	097 30
7		1	084 30
8		1	088 70
9		1	077 05
220		1	065 50
1		1	057 05
2		1	080 70
3		1	069 05
4		1	049 90
5		1	078 30
6		1	049 60
7		1	086 55
8		1	044 25

Forward

Forward

Treasury 229 1 091 10

Purchase 230 1 052 30

Silver 1 1 084 15

2 1 091 15

3 1 099 85

4 1 041 20

5 1 073 70

6 1 068 30

7 1 081 30

8 1 085 80

9 1 094 35

240 1 085 85

1 1 032 05

2 1 061 05

3 1 067 35

4 1 068 70

5 1 038 30

6 1 096 30

7 1 059 25

8 1 070 75

9 1 085 35

250 1 045 00

1 1 070 35

2 1 037 70

Forward

Forward			
Treasury	253	1	072 50
Purchase	4	1	045 70
Silver	5	1	123 25
	6	1	084 60
	7	1	083 50
	8	1	081 55
	9	1	063 85
	260	1	057 95
	1	1	085 55
	2	1	086 45
	3	1	030 65
	4	1	062 25
	5	1	113 20
	6	1	037 30
	7	1	114 25
	8	1	047 00
	9	1	058 05
	270	1	082 60
	1	1	069 20
	2	1	074 00
	3	1	099 30
	4	1	150 75
	5	1	166 45
	6	1	163 05

Forward

Treasury 277 1 154 75

Purchase 8 1 127 95

Silver 9 1 145 10

280 1 147 80

1 1 140 70

2 1 156 10

3 1 118 25

4 1 229 05

5 1 169 70

6 1 152 10

7 1 133 15

8 1 143 25

9 1 118 80

290 1 173 40

1 1 143 40

2 1 158 70

3 1 110 60

4 1 165 45

5 1 141 50

6 1 149 70

7 1 149 50

8 1 118 55

9 1 144 40

300 1 145 55

Forward

Forward

130 191 65

Treasury 301 1 147 00

Purchase 2 1 172 70

Silver 3 1 167 45

4 1 148 65

5 1 160 15

6 1 102 25

7 1 162 10

8 1 137 05

9 1 152 00

310 1 155 75

1 1 149 40

2 1 173 05

3 1 146 00

4 1 164 55

5 1 165 35

6 1 100 25

7 1 142 00

8 1 186 85

9 1 149 45

320 1 134 25

1 1 196 25

2 1 203 15

3 1 163 40

4 1 177 70

Forward

158 648 90

Forward

Treasury 325 1 099 70

Purchase 6 1 156 35

Silver 7 1 177 05

8 1 158 70

9 1 157 70

330 1 154 60

1 1 158 90

2 1 176 95

3 1 158 65

4 1 142 55

5 1 142 50

6 1 130 40

7 1 157 40

8 1 154 35

9 1 116 90

340 1 139 65

1 1 147 35

2 1 179 75

3 1 159 25

4 1 162 00

5 1 169 05

6 1 148 45

7 1 138 70

8 1 154 15

Forward

forward

186 289 90

treasury 349 1 164 20

purchase 350 1 166 85

silver 1 1 131 35

2 1 171 95

3 1 135 25

4 1 109 50

5 1 177 55

6 1 129 90

7 1 172 00

8 1 148 00

9 1 167 60

360 1 143 10

1 1 119 05

2 1 138 15

3 1 120 00

4 1 135 75

5 1 137 65

6 1 156 90

7 1 134 00

8 1 171 70

9 1 123 40

370 1 231 85

1 1 166 45

2 1 204 70

ward

213 946 60

Forward

212 946 60

Treasury	373	1	178 85
Purchase	4	1	157 80
Silver	5	1	141 05
	6	1	145 20
	7	1	157 80
	8	1	152 60
	9	1	161 15
	380	1	183 50
	1	1	173 80
	2	1	169 05
	3	1	183 30
	4	1	178 00
	5	1	195 55
	6	1	142 15
	7	1	194 05
	8	1	189 25
	9	1	145 15
	390	1	145 00
	1	1	146 80
	2	1	102 25
	3	1	172 95
	4	1	116 60
	5	1	167 80
	6	1	174 00

Forward

Forward

241 820 25

Treasury 397 1 152 60

Purchase 8 1 148 50

Silver 9 1 121 50

400 1 111 60

1 1 137 40

2 1 107 15

3 1 194 65

4 1 131 00

5 1 127 25

6 1 158 20

7 1 164 15

8 1 128 65

9 1 135 40

410 1 166 10

1 1 181 95

2 1 181 85

3 1 184 25

4 1 153 60

5 1 182 90

6 1 173 75

7 1 206 45

8 1 164 70

9 1 180 15

420 1 183 35

219 517 25

ward

Forward

269 337 35

Treasury

421

1 154 40

08 381

Purchase

2

1 167 50

Silver

3

1 186 25

4

1 181 35

08 1 1

5

1 152 00

04 381

6

1 159 70

7

1 158 45

01

8

1 137 10

9

1 157 85

28 381

430

1 163 80

01

1

1 141 85

01 381

2

1 170 70

08 381

3

1 141 50

04 381

4

1 139 55

01 381

5

1 150 60

01

6

1 155 40

7

1 124 75

01 381

8

1 178 40

08

9

1 152 30

08

440

1 152 55

1

1 101 30

2

1 174 55

3

1 115 20

4

1 163 70

Forward

277 215 16

Forward

297 218 10

Treasury

445

1 150 85

Purchase

6

1 143 85

Silver

7

1 142 15

8

1 157 05

9

1 165 20

450

1 201 30

1

1 213 50

2

1 165 25

3

1 127 55

4

1 152 35

5

1 194 55

6

1 161 75

7

1 174 85

8

1 160 90

9

1 178 20

460

1 144 35

1

1 166 80

2

1 129 75

3

1 166 65

4

1 159 00

5

1 152 85

6

1 142 95

7

1 152 25

8

1 115 50

Forward

345 04 10

Forward

215 041 50

Treasury 469 1 169 20

Purchase 470 1 154 00

Silver 1 1 150 35

2 1 163 60

3 1 144 15

4 1 174 25

5 1 142 60

6 1 182 25

7 1 136 65

8 1 183 95

9 1 104 65

480 1 180 85

1 1 165 20

2 1 171 85

3 1 163 10

4 1 138 00

5 1 191 20

6 1 170 95

7 1 156 85

8 1 146 00

9 1 209 25

490 1 146 00

1 1 134 75

2 1 164 30

Forward

215 115 95

Forward

Treasury	493	1	174 80
Purchase	4	1	136 90
Silver	5	1	176 75
	6	1	176 50
	7	1	176 95
	8	1	145 10
	9	1	159 00
	500	1	143 05
	1	1	163 00
	2	1	225 85
	3	1	181 60
	4	1	158 30
	5	1	159 75
	6	1	146 20
	7	1	155 80
	8	1	217 35
	9	1	153 40
	510	1	167 95
	1	1	195 50
	2	1	153 25
	3	1	145 50
	4	1	209 40
	5	1	176 30
	6	1	194 00

Forward

Forward

Mint	220	3	2	211 80	999 ²	2	456 32
Fine	1	6	4	805 85	999 ¹	5	335 82
Silver	2	6	4	743 30	999 ²	5	267 69
	3	6	4	979 75	999 ²	5	530 28
	4	6	4	923 70	999 ²	5	468 04
	5	6	5	003 40	999 ¹	5	555 16
	6	6	4	891 80	999 ¹	5	431 25
	7	6	4	627 00	999 ¹	5	137 25
	8	6	4	478 50	999 ²	4	973 62
	9	6	4	779 70	999 ²	5	308 12
	230	6	4	882 30	999 ²	5	422 06
	1	6	4	288 90	999 ²	4	763 06
	2	5	2	942 35	999 ¹	3	266 22
	3	6	4	719 65	999 ¹	5	240 12
	4	6	3	948 40	999 ¹	4	383 83
	5	6	4	765 70	999	5	289 92
	6	6	4	555 70	999 ¹	5	058 09
	7	6	4	892 50	999	5	430 67
	8	6	4	780 90	999 ¹	5	308 12
	9	6	4	942 55	999 ¹	5	487 60
	240	6	4	897 35	999	5	436 05
	1	6	4	836 20	999	5	368 18
	2	6	4	284 30	999	4	755 57
	4	6	5	059 75	999	5	616 32

Forward

Forward

Mint	245	6	4	681 25	999	5	196 18
Fine	6	6	4	858 35	999	5	392 76
Silver	7	6	4	991 70	999	5	540 78
	8	6	4	645 35	999	5	156 33
	9	6	4	625 60	999	5	134 41
	250	6	4	792 60	999	5	319 78
	1	6	4	620 50	999	5	128 75
	2	6	4	450 00	999	4	939 50
	3	6	4	584 55	999 ¹	5	090 12
	4	6	4	436 60	999	4	924 62
	5	5	3	156 95	999	3	504 21
	6	6	4	244 15	999	4	711 00
	7	5	3	440 55	999	3	819 01
	8	6	4	616 95	999	5	124 81
	9	6	4	433 10	999	4	920 74
	260	6	4	771 90	999	5	296 60
	1	6	4	646 20	999	5	157 23
	3	6	4	602 35	999 ¹	5	109 88
	4	6	4	632 70	999 ²	5	144 87
	5	6	4	454 20	999 ²	4	946 63
	6	6	4	894 50	999 ³	5	436 97
	7	6	4	768 65	999 ³	5	297 17
	8	6	4	668 75	999 ³	5	186 20
	9	6	4	520 20	999 ³	5	021 18

Forward

108 96

682 60 91

Forward

Mint	270	6	4	480	20	999 ³	4	976	75
Fine	1	6	4	665	30	999 ³	5	182	37
Silver	2	6	4	924	65	999 ¹	5	467	72
	3	6	4	773	90	999 ²	5	301	68
	4	6	4	771	95	999 ²	5	299	51
	5	6	4	985	70	999 ²	5	536	89

Forward

686 208 99

719 273 51

Forward

718 373 56

Time	333	98	4	032 15	4	032 15
Notes	4	98	4	014 30	4	014 30
	5	98	4	017 40	4	017 40
	6	98	4	009 95	4	009 95
	7	98	4	019 30	4	019 30
	8	98	4	018 85	4	018 85
	9	98	4	013 40	4	013 40
	340	98	4	021 40	4	021 40
	1	98	4	023 30	4	023 30
	2	98	4	015 15	4	015 15
	3	98	4	019 90	4	019 90
	4	98	4	020 05	4	020 05
	5	98	4	006 15	4	006 15
	6	98	4	030 50	4	030 50
	7	98	4	013 60	4	013 60
	8	98	4	011 00	4	011 00
	9	98	4	008 25	4	008 25
	350	98	4	020 65	4	020 65
	1	98	4	008 90	4	008 90
	2	98	4	015 05	4	015 05
	3	98	4	016 65	4	016 65
	4	98	4	016 05	4	016 05
	5	98	4	015 75	4	015 75
	6	98	4	<u>012 65</u>	4	<u>012 65</u>

ward

814 774 21

divard

814 774 21

lme	357	98	3	980 15	3	980 15
agets	8	98	3	978 10	3	978 10
	9	98	3	989 15	3	989 15
	360	98	3	992 45	3	992 45
	1	98	3	990 35	3	990 35
	2	98	3	995 75	3	995 75
	3	98	3	990 00	3	990 00
	4	98	3	998 00	3	998 00
	5	98	4	000 25	4	000 25
	6	98	3	991 55	3	991 55
	7	98	3	988 35	3	988 35
	8	98	3	982 30	3	982 30
	9	98	3	993 75	3	993 75
	370	98	3	991 00	3	991 00
	1	98	3	991 05	3	991 05
	2	98	3	995 95	3	995 95
	3	98	3	990 90	3	990 90
	4	98	3	984 40	3	984 40
	5	98	3	973 95	3	973 95
	6	98	3	994 80	3	994 80
	7	98	3	958 20	3	958 20
	8	98	3	991 85	3	991 85
	9	98	3	975 30	3	975 30
	380	98	3	991 15	3	991 15

917 452 91

Forward

910 482 91

Dime 381 98 3 988 15

3 988 15

Ingots 2 98 3 984 70

3 984 70

3 98 4 025 35

4 025 35

4 98 4 006 70

4 006 70

Forward

926 487 81

Seattle

attle	666	1	076 33	896	097	1	071 546	116 00
-Dep.	9		987 33	877	114		962 098	125 06
	672		968 21	849 ¹	129		913 613	138 77
	3	1	094 95	847 ¹	136	1	030 773	165 45
	6		885 75	896	097		881 813	95 46
	681	1	169 01	894 ³	097	1	162 190	125 99
	3		980 59	873 ²	113		951 717	123 11
	4		990 31	875 ¹	108 ²		963 076	119 38
	6		996 17	874 ¹	108		967 668	119 54
	7		828 13	860 ³	133 ²		792 014	122 83
	690		902 29	880 ²	115 ²		882 740	115 79
	1		961 17	880 ²	115 ²		940 344	123 35
	2	1	174 32	880 ²	115 ²	1	148 876	150 70
	3		876 60	884	111 ²		861 016	108 60
	5	1	045 70	848 ²	145		985 862	168 47
	6		811 86	870 ²	126		785 249	113 66
	7		906 37	870 ²	126		876 661	126 89
	726		996 16	866	129		958 527	142 78
	7		868 92	880 ²	113		850 093	109 09
	8		865 21	880 ²	113		846 463	108 63
	9		822 45	880 ²	113		804 630	103 26
	734		973 01	836 ³	157		904 629	169 73
	5		975 91	847 ¹	147		918 710	159 39
	6		974 71	840 ³	154		910 541	166 78

223 70.3 49 429 606 57

ward

Forward					45 590003	932 961.9
1	789	986 21	882 ¹	132	944 843	144 64
Seattle	790	967 14	852 ²	140 ²	916 096	150 98
Re-Dep.	1	891 05	883	105	874 219	103 95
	2	1 028 93	874 ²	120	999 776	137 19
	812	993 35	883 ¹	113	974 862	124 72
	3	896 20	886 ¹	110 ²	882 508	110 03
	4	999 95	886	110 ²	984 395	122 77
	5	1 050 03	845	151	985 861	176 17
	6	1 023 05	884 ²	112 ²	1 005 430	127 88
	7	994 42	885 ²	111 ²	978 398	123 19
	9	993 00	855 ³	141	944 177	155 57
	820	905 58	864	133	869 356	133 82
	1	1 054 00	879	117 ²	1 029 406	137 60
	2	675 33	884 ²	111 ²	663 699	83 66
	3	1 323 12	849 ²	146 ²	1 248 878	215 37
	4	574 20	882 ²	113 ²	563 035	72 41
	5	720 70	879 ²	114	704 284	91 28
	6	828 04	879 ²	114	809 179	104 88
	7	1 303 36	888 ³	107 ²	1 287 068	155 67
	8	830 95	878 ³	115 ²	811 330	106 63
	832	677 24	869	124	653 912	93 30
	4	1 021 32	863	127	979 332	144 11
	5	1 209 84	898	091	1 207 151	122 32
	6	1 337 48	895 ²	098	1 330 792	145 63
	7	968 04	892 ²	102	979 806	111 97

69 217 792 921 347 113

Forward

92 022 187 939 767 63

Seattle	896	922 20	852	142 ²	873 016	146 01
La-Dep.	6	667 06	873 ¹	121 ²	647 233	90 05
	8	987 16	874	121	958 642	132 71
	9	944 57	865 ²	129 ²	908 361	135 91
967		700 42	823 ¹	157	640 689	122 18
	8	738 48	892 ¹	103	732 120	84 51
973		998 22	862 ²	133 ²	956 627	148 06
	5	627 02	888 ³	105	619 182	73 15
	8	991 51	853 ³	140 ²	940 557	154 78
	9	817 19	865 ¹	129	785 637	117 13
982		688 45	869	126	664 736	96 38
	3	785 68	863 ³	131	754 034	114 36
	6	971 40	825	157 ²	890 450	169 99
	7	637 67	883	110 ²	625 625	78 29
	8	797 92	883	110 ²	782 848	97 96
	9	706 00	886	110	695 017	86 28
994		718 54	851 ³	145 ²	680 018	116 16
	5	868 46	845 ¹	150	815 628	144 74
	7	696 86	822	159	636 465	123 11
1107		898 59	876 ²	118 ²	875 126	118 31
	9	668 01	854	140 ²	633 867	104 28
1116		994 37	812 ¹	169	897 418	186 72
	7	993 59	821 ¹	168	906 650	185 47
1124		984 03	856	138	935 921	150 88

110 878 006 942 740 41

ward

110 888 006 942 745 10

Forward

Seattle	1195		706 92	884 ³	111		694 941	87 18
Re-Dep.	1200		548 57	884	111		538 817	87 65
	2	1	033 90	869 ²	126		998 862	144 74
	3	1	014 65	878	117 ²		989 847	132 48
	4	1	102 79	877	120	1	074 607	147 03
	5	1	011 56	868	128 ²		975 593	144 42
	6		659 43	869 ²	126 ²		637 982	92 68
	7	1	066 60	881 ¹	115	1	044 379	136 28
	8	1	168 35	881 ¹	115	1	144 009	149 28
	9		723 50	888 ¹	108		714 054	88 88
	1210		639 25	883	106		627 175	75 28
	5		704 88	880 ¹	112 ²		689 411	88 11
	1392		991 23	891	105		981 317	115 64
	3	1	147 60	891	105	1	136 124	133 88
	1502		998 13	792	179		878 354	198 51
	3		996 91	800 ¹	180 ²		886 419	199 93
	5		832 11	810 ²	176 ²		749 361	163 18
	7		766 80	826 ³	160		704 391	136 32
	1515		927 92	853	140		879 461	144 34
	6		757 39	841 ³	143 ²		708 370	120 76
	1591		642 75	664	056		474 206	39 93
	2		630 27	826 ²	159		578 797	111 30
	8		532 94	826	159		489 180	94 10
	9		651 54	986 ²	004		714 160	

Forward

130 196 863 745 555 17

Forward					130 196 863	945 565 07	
Seattle	1604	485 30	969	026 ²	522 506		14 28
Re-Dep.	7	1 023 96	825	168	938 630		191 13
	8	1 097 00	819 ²	175 ²	998 879		213 91
	9	396 64	436	210	192 150		92 54

Forward 132 849 028 746 565 07

Forward

132 849 028 946 066 93

Deadwood	1432	1	895 60	757	228	1	594 410	400 21
Re-Dep.	3	1	908 60	795 ¹	194 ²	1	686 460	412 48
	4	1	913 57	777 ²	214	1	653 111	455 01
	9		500 03	834 ³	053		463 777	29 4A
	1460	1	873 99	796 ²	192 ²	1	656 481	400 82
	1	1	875 69	762 ¹	224 ²	1	588 605	467 88
	2	1	883 29	781 ³	209	1	635 846	437 34
	3	1	891 84	758 ²	222 ²	1	594 400	467 70
	1493	1	841 29	787 ³	199	1	611 640	407 12
	5	1	808 43	779 ²	211	1	566 301	423 97
	6	1	839 42	778 ¹	211	1	590 587	431 24
	1522	1	686 02	726 ³	252	1	361 461	472 08
	9		758 02	285 ¹	663		240 250	558 40
	1530		694 88	279 ³	662		215 991	511 12
	1	1	862 73	779 ²	212	1	613 331	436 77
	2	1	867 27	775 ²	212	1	608 964	439 84
	3	1	852 70	768 ¹	221	1	581 485	454 94
	4	1	883 67	789 ¹	200	1	651 873	418 53
	6		762 26	391	534 ²		331 159	452 02
	7		472 25	835	023		438 143	420 06
	8		580 66	603 ²	335		389 364	218 13
	1553	1	833 05	795 ¹	195	1	619 703	397 16
	4	1	836 68	766	221	1	563 218	451 00
	5	1	839 32	766 ³	221 ²	1	566 998	452 67

Forward

163 674 586 905 705 56

Forward

163 674 586 955 755 56

Wood 1556	1	873 46	768 ³	222	1	600 247	462 12
Re-Dep. 7		677 09	340 ²	584		256 165	439 35
8		825 06	329	598		301 605	548 20
9		874 53	378	548 ²		367 302	532 97
1560		878 12	375 ²	547		366 371	533 70
1		518 21	852 ²	053		490 860	30 51
2	1	388 00	717 ¹	265 ²	1	106 158	409 46
3	1	411 58	717 ²	265 ²	1	125 342	416 41
1583	1	727 46	773	218	1	483 696	418 42
4	1	599 08	781 ²	208	1	388 534	369 56
5	1	743 32	770 ²	220 ²	1	492 475	427 11
6	1	459 16	768 ¹	220	1	245 555	356 68
7	1	618 10	768 ²	219 ²	1	381 677	394 63

176 286 573 961 094 68

Forward

Forward

176 280 573 961 094 68

Salt Lake 1571		799 67	507	489 ²	450 480	434 83
Re-Dep.	2	740 86	507 ¹	489	417 556	402 53
	3	631 10	508	488 ²	356 220	342 54
	4	602 75	508 ³	488	340 721	326 82
	5	880 13	840 ¹	011	821 699	10 75
	6	894 86	834 ¹	011	829 485	10 93
	7	860 98	860 ¹	010 ²	822 953	10 04
	8	693 20	502 ¹	494	386 844	380 48
	9	580 64	503	493	324 513	316 06
	1580	642 20	502	494 ²	358 204	352 85
	1	664 79	503 ³	492 ²	372 097	365 78
	2	941 63	559	343 ²	584 856	359 38

Forward

182 346 201 964 407 77

Forward

182 346 201 964 407 77

Helena	1539	928 84	240 ¹	745	247 948	768 87
Re-Dep.	1543	611 60	835	158	567 428	107 36
	4	503 96	866 ¹	128	485 061	71 67
	5	622 71	585 ³	399	405 280	276 06
	1584	468 24	501 ²	486	260 913	252 84
	6	585 62	501 ²	485 ²	326 320	315 90
	7	976 02	260	723	281 961	784 06
	8	960 26	261 ¹	726	278 742	774 60
32	9	974 01	257 ¹	728	278 404	787 86

Forward

185 478 258 968 546 99

Forward

185 478 258 968 546 99

Boise	1548		802 60	525 ²	442 ²		468 629		394 61
Re-Dep.	9		944 13	576	376		604 243		394 43
	1550	1	331 61	737 ³	238	1	091 550		352 13
	1	1	004 84	562 ²	354		628 025		395 23
	2	1	038 41	701 ³	283		809 671		326 52
	1613		651 49	519 ¹	459		375 673		332 25
33	9		947 01	712 ²	272 ²		749 716		286 73

Forward

190 205 965 971 028 89

Forward

190 200 965 971 028 80

Gold	3033	598 30	735	233 ²	488 611	155 22
Deposits	4	596 11	736 ¹	231	487 651	153 00
	3046	1 144 24	814 ³	010 ²	1 035 855	13 34
	7	1 155 65	826 ²	049 ²	1 061 271	63 56
	8	1 159 90	832	051	1 072 263	65 72
	9	1 001 23	829 ¹	052 ²	922 522	58 40
	3050	1 065 10	800 ³	048 ²	947 643	57 39
	1	1 046 42	898 ²	090 ²	1 044 675	105 22
	2	1 059 50	904	087	1 064 208	102 41
	7	305 22	754	236 ²	255 706	80 20
	8	298 69	760	230	252 227	76 33
	9	520 32	939		542 867	
	3067	980 78	840	051	915 394	55 57
	8	922 35	853 ¹	051	874 439	52 26
	9	879 42	901	092 ²	880 397	90 38
	3070	1 230 65	995	003	1 360 551	
	1	314 67	757 ³	234	264 934	81 81
	2	309 29	771 ²	219 ²	265 130	75 43
	3089	553 53	978 ²		601 810	
	3093	854 69	904 ²		858 963	
	4	551 79	802 ¹	035	491 859	21 45
			1	2		
	3104	731 13	896	087	728 083	71 08
	5	704 00	896 ²	088 ²	701 262	69 22
	6	916 00	843 ³	052 ²	858 750	53 43

208 183 136 972 000 31

Forward

205 83 036 972 530 31

Forward

Gold	3107		991 61	872 ¹	053 ²	961 035	58 94
Deposits	8		291 02	748 ²	24 ²	242 031	78 09
	9		303 31	750	341	252 753	81 21
	3113	1	321 32	99 ¹	002 ²	1 461 159	
	4		327 85	757 ¹	234	275 849	85 24
	6		779 22	582 ¹	285	504 112	246 75
	8		399 ³²	806 ²	185	357 838	82 18
	3120		46 67	932		943 262	
	2		293 86	666 ²	314	217 619	102 52
	5		700 13	913 ³		710 826	
	6		645 10	912 ²		654 059	
	7		648 33	691	020	497 773	14 40
	8	1	217 43	995	003 ²	1 345 936	
	9		211 60	837 ²	155 ²	196 905	36 55
	3132		413 61	800 ³	050 ²	367 998	23 20
	3		976 13	898 ³	078	974 774	84 59
	4		449 81	863	055 ²	431 317	27 73
	5		774 58	866 ¹	055	745 533	47 33
	9		285 87	754 ²	235 ²	239 654	74 80
	3140		200 59	748 ³	240 ²	166 879	53 60
	3158		396 79	949 ¹		418 503	
	3170	1	182 76	918 ³	072	1 207 400	94 62
	1		889 88	869	059	859 228	58 33
	4		220 50	563 ³	411 ²	138 118	74 21

222 359 602 973 881 20

Forward

Gold Dep. 3176

7

8

9

3185

8

7

8

3192

4

5

6

7

8

9

3200

4

5

3215

9

3220

9

3230

1

1 628 72 995¹ 002²583 19 801 018²918 49 897²854 53 964¹949 21 699³ 098816 20 700¹ 098727 54 699³ 097291 77 527 388²

1 222 84 995 003

859 26 896 097

713 57 816² 057²453 94 776² 060²296 66 748³ 240²309 71 753¹ 237298 70 755³ 234²315 81 750² 239²628 05 476² 269²689 45 579³ 265²

470 21 968

433 01 800¹ 010933 50 905²

1 207 25 910 081

911 92 792 052

976 11 772¹ 047

1 801 092

519 039

915 938

915 533

738 010

635 048

565 662

170 847

1 351 917

855 441

647 366

391 649

246 804

259 210

250 825

263 350

332 517

444 120

505 736

385 018

939 204

1 221 334

802 489

837 556

11 98

103 35

88 87

78 41

125 94

92 60

45 58

30 51

79 27

81 55

77 82

84 04

188 06

203 38

481

1086

102

528

58

597

5

1/2.

Forward

222 359 602 973 881 20

222 355 307 975 889

Forward

Gold 3232

Deposits 3

5

6

3242

9

3250

1

5

3263

5

6

7

3271

3

4

3282

6

7

8

3292

3310

1

37

2

993 88

707 24

569 33

571 95

351 43

309 56

295 16

523 74

686 97

293 10

1 041 73

684 46

684 44

371 67

745 35

994 54

1 019 39

308 03

304 08

496 46

1 019 16

1 030 20

631 98

634 99

788

994³

719

719²

757

760¹

760¹

956³

995

766¹

912

792

802²

799¹

770³

895³

855¹

753²

753³

968¹

994³

1

899

849³

861

052²

003²

240²

240²

230

230²

230²

003²

084²

080²

055²

054²

178²

023²

128

238

237

003²

092

064²

066²

870 197

781 696

454 831

457 242

295 591

261 492

249 328

556 764

759 433

249 542

1 055 619

602 324

610 292

330 063

638 309

989 843

968 703

257 889

254 667

534 108

1 126 454

1 029 341

596 694

607 475

57 97

152 13

152 83

89 80

79 28

75 59

27 51

93 17

42 20

41 44

73 71

19 46

144 97

81 45

80 07

105 30

45 29

46 91

Forward

238 355 307 975 389 67

252 893 252 971 798 75

Forward

252 893 252 976 796 75

Gold	3313	1	124 92	995	003	1	243 661	
Deposits	6		307 95	755 ¹	235		258 421	80 40
	7		299 33	755 ²	233		251 270	77 49
	8		522 06	963 ¹			558 749	
	3324		719 72	905 ³	085 ²		724 318	68 37
	5		995 59	767 ³	057		849 293	63.05
	6		687 95	789 ³	062		603 676	47 39
38	7	1	302 06	995	003	1	439 499	

Forward

258 822-339-477 735 45

258 122 139 977 135 45

Forward

Silver	568	1	178 44	074 ³	875	97 875	1	145 70
Deposits	9		943 45	081 ²	879	85 434		913 04
	570	1	156 78	081 ¹	871	104 431	1	119 50
	1		854 12	08 ²	870 ²	77 819		826 12
	2	1	287 45	082 ¹	871	117 858	1	245 96
	3	1	122 00	082	871	102 231	1	085 89
	5		640 14	021 ²	818	15 292		581 81
	6		802 46	022	818	19 615		729 34
	580	1	123 88	454 ³	520 ²	567 871		649 97
	1	1	081 24	444 ²	516	534 012		619 91
	4	1	108 23	017 ²	809 ²	21 548		996 79
	5	1	169 40	017 ²	827	22 738	1	074 54
	6		245 59	383 ¹	596 ²	104 580		162 77
	590		347 25	462	526	178 255		202 94
	1		631 95	228	506 ²	160 094		355 64
	2		573 59	228 ¹	509	145 486		324 39
	3		527 00	229 ³	508 ²	134 531		297 75
	4		383 32	231 ³	514	98 704		218 91
	5		238 57	027	451	7 157		119 55
	6 2	1	319 31	086 ³	870 ²	127 166	1	276 06
	7 2	1	565 25	086 ²	870 ²	150 437	1	513 94
	8 2	1	367 34	085 ³	870 ²	130 277	1	322 52
	9	1	216 70	085 ²	868	115 596	1	173 43
	600 2	1	363 23	086 ³	869	131 400	1	316 27

Forward

262 072 318 996 408 19

Forward

265 347 001 005 798 14

Refinery	1	14	5	941 35	903 ¹	074 ²	5	962 804	491 81
Settlement	2	14	6	029 95	917 ²	071 ²	6	147 199	479 04
Gold	3	13	5	786 20	912 ¹	076 ²	5	864 256	491 82
	4	12	5	168 80	922	065	5	295 148	373 30
	5	12	5	121 25	877	099 ²	4	990 373	566 18
	6	9	3	861 40	898 ²	076 ²	3	854 964	328 21
	7	13	4	993 45	754 ³	240 ²	4	187 562	1 334 36
	8	13	5	070 13	757 ¹	239	4	265 951	1 346 40
	9	10	3	773 82	742 ²	243 ²	3	113 401	1 021 02
	10	15	6	654 08	925 ³	059 ²	6	844 460	439 90
	11	11	4	771 30	918 ²	068 ²	4	869 376	363 14
	12	18	3	256 53	999.7		3	617 261	
	13	19	3	390 62	995 ³		3	751 344	
	14	17	7	730 55	923 ²	053 ²	7	932 403	459 53
	15	13	4	754 12	646 ¹	299	3	413 722	1 579 42
	16	7	2	840 30	852 ²	052 ²	2	690 395	165 68
	17	13	4	822 65	650	300	3	483 025	1 607 55
	18	10	3	789 35	654 ¹	291	2	754 646	1 255 22
	19	12	4	401 95	656 ¹	292 ²	3	209 755	1 435 52

Forward

351 595 766 1019 506 24

Forward

Refinery	1	14	3	563 90	037 ²	936 ³	148 495	3	706 45
Settlement	2	16	4	173 70	050 ²	919	234 190	4	261 81
Silver	3	17	4	488 40	043	942 ²	214 445	4	700 35
	4	17	4	549 45	047 ²	933 ²	229 554	4	511 34
	5	18	4	801 35	098	890 ²	522 813	4	750 66
	6	13	3	510 10	100	882 ²	390 011	3	441 84
	7	16	4	288 10	073	919	347 812	4	378 62
	8	17	4	458 15	070 ³	906 ²	350 460	4	490 34
	9	18	4	659 75	085	886 ²	440 087	4	589 85
	10	18	4	756 95	040	955	211 420	5	047 65
	11	17	4	503 65	047 ¹	943 ²	236 441	4	721 32
	12	40	3	835 95		999		4	257 90
	13	40	3	908 40		999 ¹		4	339 40
	14	6	4	634 50		999 ²		5	146 86
	15	6	4	710 15		999 ¹		5	229 57
	16	15	3	947 40	040 ³	945 ²	178 729	4	146 96
	17	10	2	632 20	045	921	131 610	2	693 61
	18	16	4	238 95	090 ²	859 ²	426 249	4	048 19
	19	12	3	370 10	177 ¹	773	663 722	2	894 54
	20	13	3	609 15	133 ³	830 ²	536 359	3	330 44
	21	17	4	481 85	106 ¹	837 ²	529 107	4	170 61

Forward

42

Forward						357	337	270	1,108	834 15
Ref.G.Set. 20			119 67	367	267 ²		48	798		35 68
Ref'y	22	9	2 787 30	323 ¹	465 ²	1	001	105	1	441 65
Silver	23	9	2 535 60	222 ¹	558		626	152	1	572 07
Set'm't	24		41 15	243 ²	416 ²		11	133		19 04
Ref'y	1	5	3 808 00	013 ³	006		58	177		26 38
Set'm't										
Copper	2	5	3 741 00	011	007		45	723		29 09
Mass	1	14	4 437 70	521 ¹	375 ²	2	570	167	1	851 50
Melts	2	9	2 918 95	657 ²	245 ²	2	132	455		796 22
	3	11	3 455 00	544 ¹	365 ²	2	089	315	1	403 11
Exp'l	32		427 50		899					427 02
Fine Gold Specimen			13 67	999.7			15.184			
Assayer's	47		309 95	641	246 ²		220	753		84 89
Bars	50		4 79		985					5 24
	51		187 98	687 ³	242 ²		143	648		50 65
Alloy Silver			78 95		1000					87 72
Proof Gold			35 28	1000			39	200		
" Silver			34 41		1000					38 23
Fine Silver			262 26		1000					231 40
Ingot Samples			76 28	900			76	280		
Nov.21,1910, Del'd to										
Chas.Mindeleff, F.Silver	12	87		1000						14
Apl.19,1911, Ingot & F.										
Gold Smpls. to Mint Bureau							6	145		
Sweeps, 28,570 lbs.							245	785		730 60
Total delivered in Settlement						366	717	290	1,117	268 22
Balance charged against Melter and Refiner						366	424	674	1,116	75 11
Surplus							292	616		493 11

SUMMARY

Dime Ingots			208	113	95
Treasury Purchase Silver			444	819	01
Mint Fine Silver			273	554	85
Gold Deposits	68	616 174	6	106	56
Silver "	6	524 862	28	662	69
Boise Re-Deposits	4	727 707	2	481	90
Leadwood "	43	431 545	15	027	75
Helena "	3	132 057	4	139	22
Salt Lake "	6	065 628	3	313	09
Seattle "	132	849 028	19	579	12
Mass Melts	6	791 937	4	050	83
Experimental #32				427	02
Fine Gold Specimen		15 184			
Refinery Settlement, Gold	86	297 563	13	743	66
" " Silver	7	429 894	91	891	07
" " Copper		103 900		54	47
Assayer's Bars, Alloy, Proof, And Samples		479 881		558	13
Fine Silver to Chas. Mindelleff				14.30	
Gold Samples to Mint Bureau		6 145			
Sweeps		245 785		730	60
Total delivered in Settlement	366	717 290	1,117	268	22
Balance charged against M. & R.	366	424 674	1,116	775	11
Surplus		292 616		493	11

U. S. MINT SERVICE.
Form No. 65.
Ed. Oct. 22-08-500-8 x 10 1/2

MELTER AND REFINER'S OPERATIONS.

of the United States

At

Denver, Colorado

1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of *June*, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,	<i>none</i>							
Gold Bars,	<i>none</i>							
TOTAL,	<i>none</i>							
Silver Ingots,	<i>none</i>							
Silver Bars,	<i>none</i>							
TOTAL,	<i>none</i>							

Total recovered during the year from old furnace

108.226 139.601

247.827

233.65 146.93

380.58

Total recovered during the year from old furnace

stack in one since Aug. 1906 - 650.13

Benjamin

Melter and Refiner.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Attendance Account, M. & R. Dept., June, 1911. *Sum*

	Time Lost	Conduct	Workmanship
Arnold, R.G.	3 das.	100	92
Bartlett, H.D.	4 das. 1 hr.	100	94
Borstadt, Geo.	5 das.	100	94
Bush, W.M.	9 das.	100	97
Crary, J.H.	4 das.	100	92
Dardis, W.N.	4 das.	100	92
Gray, G.B.	3 das.	100	95
Hetrich, J.M.	-----	100	100
Howbert, D.T.	10 das.	100	90
Lindhard, J.A.	5 das.	100	94
Lundin, A.H.	2 das.	100	92
Russell, N.A.	3 das.	100	92
Schell, E.P.	2 das. 8 hrs.	100	90
Smith, E.S.	3 das.	100	92
	1 day 6 hrs. sick		
Spencer, G.N.	3 das.	100	93
St. John, F.	6 hrs.	100	100
Stoddard, X.T.	3 das. 2 hrs.	100	97
Taggart, B.H.	4 das.	100	93
Whitaker, S.R.	3 das.	100	93
Whitehead, H.R.	4 das. 2 hrs.	100	93
Wirth, B.P.	1-1/2 hrs.	100	100

June/11

REFINERY

1. Product: Gold	84,181.55 fine ozs.
Silver	<u>61,138.10</u> " "
Total	145,319.65 " "
2. Costs:	
a. Labor	\$1,436.21
b. Crucibles	7.25
c. Acids	71.53
d. Supplies	125.15
e. Mitts, gloves, aprons	45.64
f. Chemicals	15.00
g. Sweeps cellar	121.03
h. M. & R. Gen'l	426.46
i. Fuel	73.80
j. Power	226.47
k. Repairs	340.52
l. Light & Ventilation	50.00
m. Incidentals	12.15
n. Assays	81.83
o. Vacation & holidays	219.81
p. 1/11 Shut-down expense	<u>192.53</u>
Total	\$3,445.38
Less cost of copper	<u>117.75</u>
Total	\$3,327.63 (Includes all clean-up for settlement expense.)
3. New Equipment	<u>19.50</u>
Total expense	\$3,347.13
4. Crude bullion, none	
5. Bullion, .992 and above, Gold, none	
6. Retreated, none	
7. Bullion, no charges, none	
Total operated upon, none	
8. Cost per ounce, total operated upon	.000000
9. Average " " " " "	.011855
10. Cost per crude ounce	.000000
11. Average " " " "	.019820

June/11

INGOT ROOM

1. Amount bullion melted, Bronze,	110,412.40
1. Amount good ingots, Cents	<u>105,402.20</u>

3. Cost of Ingots

	Amount	Cost per oz.
a. Labor	\$200.30	.001900
b. M. & R. Gen'l	213.22	.002021
c. Mitts & gloves	4.27	.000040
d. Crucibles	10.36	.000098
e. Sweeps cellar	61.85	.000586
f. Supplies	46.20	.000438
g. Fuel	33.30	.000315
h. Power	14.10	.000133
i. Light & ventilation	5.88	.000055
j. Repairs	50.43	.000478
k. Incidentals	0.00	.000000
l. Vacation & H'days	96.06	.000911
M. Alloy copper	0.00	.000000
Totals	\$735.97	.006982 (Includes all clean-up for settlement expense.)
4. New Equipment	<u>12.00</u>	

Total expense	\$747.97
---------------	----------

5. Percentage of good ingots	95.4
------------------------------	------

6. Average cost of ingots for fiscal year:	Gold,	.002938
	Silver	.003460
	Bronze	.004263

7. Cost distribution, all Bronze

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

The Melter and Refiner received from the Superintendent during the fiscal year 1911:-

GOLD ACCOUNT

In Bullion		2,680,362.408
Returned prior to Settlement	2,313,937.734	
" at "	366,717.290	2,680,655.024
Surplus in gold recovered		292.616

SILVER ACCOUNT

In Bullion		2,429,134.89
Returned prior to Settlement	1,312,359.78	
" at "	1,117,268.22	2,429,628.00
Surplus in silver recovered		493.11

The surplus was recovered from fractional gains in weights of deposits, unreported fractions of assays, from the Refinery flues that have been in use four years, and the Ingot melting room stacks that have been in use since we began operations in this Mint.

The Sweeps cellar was operated under the supervision of the Melter and Refiner during the first nine months, and under the supervision of the Superintendent, by the Deposit Melting room force, during the last three months of this year, and treated 110,368 lbs. of sweeps, and extracted therefrom 1,510.888 standard ounces of gold, and 2,365.79 standard ounces of silver; and the resulting mill tailings contained 546.423 standard ounces of gold, and 2,179.30 standard ounces of silver.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

2

Refinery operations, covering a period of eleven months, were as follows:

GOLD ACCOUNT

Delivered to the Refinery		1,796,406.861	
Returned prior to Settlement	1,702,100.330		
" at Settlement in bars	94,265.894		
" " " sweeps	165.166	1,796,531.390	
Surplus in gold recovered			124.529

SILVER ACCOUNT

Delivered to the Refinery		1,522,367.56	
Returned prior to Settlement	1,414,497.92		
" at Settlement in bars	106,312.91		
" " " sweeps	557.03	1,521,367.86	
Wastage in silver			999.70

The Refinery also returned 280 lbs. Copper; 96.52 ounces Platinum; and 4.18 ounces Palladium.

The Refinery earnings were as follows:

Charges collected on bullion treated in Refinery	\$78,509.37
Surplus bullion recovered	1,856.95
	4,338.25
By-products	
Total	\$84,704.57

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

MINOR COINAGE BULLION

First Year's Operations:	Troy ounces	
Received: Copper	1,458,333.33	
Zinc	43,822.91	
Tin	29,392.70	
Clippings	<u>61,846.85</u>	1,592,621.14
Delivered: Ingots	302,167.65	
Bronze metal in Set'm't	<u>1,290,453.49</u>	774.65
Wastage		

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

4

The following melts were made:

	Gold	Silver	Gold and Silver	Total
Deposits	3,655	660		4,315
Anodes	66	608		674
Cathodes	36	34		70
Ingots	329	384		713
Mint Bars	233	275		508
Slimes	129	163		292
Settlement	20	24	2	46
Sweats			543	543
Miscellaneous			53	53
Totals	4,468	2,148	598	7,214

Ingot Melts condemned, None; Remelts: Gold, None; Silver, 7.

Number of employees in the Refinery - - - - - 15
 " " " " Department, exclusive of Refinery - 6

GOLD.

SILVER

Approved:

August 2
1911.

Melter and Refiner.

MELTER AND REFINER'S OPERATIONS.

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of July, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

At Denver, Colorado, July of the United States, 1911.

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN LOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							4.281	4.281
Gold Bars,								
TOTAL,								
Silver Ingots,	82.623.67	79.997.20	2.527.71		9876		30.08	68.68
Silver Bars,								
TOTAL,								

I certify the above to be a correct statement.

Approved:

Journal
Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Attendance, Conduct, and Workmanship, M. & R. Dept., July, 1911

			Conduct	Workmanship
Arnold, R. G.	22 das. 4 hrs. leave		Absent	all Month
Bartlett, H.D.	22 " 4 " "		"	"
Borstadt, G.	22 " 4 " "		"	"
Bush, W.M.	4 7/8 " 7 1/4 " "		100	97
" " without pay	7 " 5-1/2 hrs.			
Crary, J.H.	22 das. 4 hrs. leave			Absent
Dardis, W.N.	22 " 4 " "			"
Gray, G.B.	22 " 4 " "			"
Hetrich, J.M.	21 " 4 " "	100		100
Howbert, D.T.	10 " 4 " "	100		90
Lindhard, J.A.	10 " 4 " "	100		94
Lundin, A.H.	16 " ---- " "	100		92
Russell, N.A.	22 " 4 hrs. " "		Absent	
Schell, E.P.	16 " ---- " "	100		90
Smith, E.S.	22 " 4 hrs. " "		Absent	
Spencer, G.N.	22 " 4 " " "		"	
St. John, F.	---- 4-1/2 hrs. " "	100		100
Stoddard, X.T.	16 das. leave	100		97
" "	6 " sick			
Taggart, B.H.	22 " 4 hrs. leave		Absent	
Whitaker, S.R.	16 " ---- " "	100		93
Whitehead, H.R.	22 " 4 hrs. " "		Absent	
Wirth, B.P.	22 " 4 " " "		"	

July/11

INGOT ROOM

1. Amount bullion melted, Silver	<u>82,623.67</u>
2. Amount good ingots, Dimes	<u>79,997.20</u>

3. Cost of Ingots:	Amount	Per ounce
a. Labor	\$113.01	.001412
b. M. & R. Gen'l	139.65	.001745
b-2. " " V. & H.	78.35	.000979
c. Mitts & Gloves	3.02	.000037
d. Crucibles	6.91	.000086
e. Sweeps cellar	0.00	.000000
f. Supplies	8.70	.000108
g. Fuel	10.15	.000126
h. Power	9.81	.000122
i. Light & Ventilation	0.00	.000000
j. Repairs	10.47	.000130
k. Incidentals	2.70	.000033
l. Vacation & Holidays	134.09	.001676
m. Alloy copper	35.16	.000439
Totals	<u>\$552.02</u>	<u>.006900</u>

4. New Equipment 154.40

Totals expense \$706.42

5. Percentage of good ingots: 96.8

6. Average cost of ingots for fiscal year: Silver, .006900

7. Cost distribution: All Dimes

REFINERY

Refinery shut down entire month.

M. & R. Gen'l	\$279.30
" " V. & H.	156.69
Repairs	110.02
Vacation & Holidays	<u>1663.99</u>
Total	\$2210.00
New Equipment	<u>194.80</u>
Total Expense	\$2404.80

MELTER AND REFINER'S BALANCES.

Milk

OF THE UNITED STATES AT

Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of August, 1911.

GOLD

[illegible]

SILVER

[illegible]

Approved:

Superintendent.

September 2, 1911

Welter und Heßner
3

MELTER AND REFINER'S OPERATIONS.

Mint of the United States

At Denver, Colorado, Sept 5th, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of August, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOTAL BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							3.342	3.342
Gold Bars,								
TOTAL,								
Silver Ingots,	373.80794	363.51440	9.82501					
Silver Bars,								
TOTAL,								

I certify the above to be a correct statement.

J. C. Williamson
Melter and Refiner.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Absence Account, M. & R. Dept., August, 1911.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	-----	100	94
Bartlett, H.D.	-----	100	96
Borstadt, G.D.	1/2 hr.	100	95
Bush, W.M.	-----	100	98
Crary, J.H.	4 hrs.	100	94
Dardis, W.N.	-----	100	94
Gray, G.B.	-----	100	96
Hetrich, J.M.	-----	100	100
Howbert, D.T.	-----	100	90
Lindhard, J.A.	-----	100	95
Lundin, A.H.	1/2 hr.	100	94
Russell, N.A.	-----	100	94
Schell, E.P.	1-1/2 hrs.	100	92
Smith, E.S.	-----	100	93
Spencer, G.N.	-----	100	96
St. John, F.	7 das., 1/2 hr.	100	100
Stoddard, X.T.	1 da.	100	98
Paggert, B.H.	1 hr.	100	94
Whitaker, S.R.	2 hrs.	100	94
Whitehead, H.R.	-----	100	94
Wirth, B.P.	1/2 hr.	100	100

REFINERY

August/11

1. Product:	Gold	127,378.84	fine	ozs.
	Silver	65,296.75	"	"
	Total	192,675.59	"	"

2. Costs:	a. Labor	\$1,741.17
	b. Crucibles	48.38
	c. Acids	522.86
	d. Supplies	98.19
	e. Mitts, Gloves, Aprons	58.02
	f. Chemicals	20.00
	g. Sweeps cellar	0.00
	h. M.&R.Gen'l	438.67
	i. Fuel	82.94
	j. Steam	190.90
	k. Power	213.48
	l. Repairs	173.99
	m. Light & Ventil'n	8.50
	n. Incidentals	17.50
	o. Assays	210.08
	p. Vacation & H'days	121.16
	q. 1/11 shut-down exp.	218.61
	Total	4,164.45

3. New Equipment	114.94
Total expense	\$4,279.39

4. Crude Bullion	411,713.15
5. Bullion, .992 and above	32,635.49
6. Retreated	0.00
7. Bullion, no charges	92,298.97
Total operated upon	536,647.61

8. Cost per ounce total operated upon	.007760
9. Average " " " "	same
10. Cost per crude ounce	.010114
11. Average " " " "	same

INGOT ROOM

1. Amt. bullion melted -- all silver	373,807.94
2. " good Ingots -- Dimes	363,514.40

3. Cost of Ingots	Amount	Per oz.
a. Labor	\$311.27	.000856
b. M. & R. Gen'l	219.33	.000603
c. Mitts & gloves	8.90	.000024
d. Crucibles	27.65	.000076
e. Sweeps cellar	0.00	.000000
f. Supplies	30.75	.000084
g. Fuel	48.38	.000133
h. Power	13.36	.000036
i. Light & Ventil'n	1.00	.000002
j. Repairs	17.00	.000046
k. Incidentals	3.00	.000008
l. Vacation & h'days	42.90	.000118
m. Alloy copper	216.59	.000595
Totals	940.13	.002586

4. New Equipment	0.00
Total expense	\$940.13

5. Percentage of good ingots -- 97.2	
6. Average cost of ingots for fiscal year -- all silver	.003364
+ distribution -- all dimes	

Mint
OF THE UNITED STATES AT
Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of September, 1911.

GOLD:

[illegible]

SILVER.

STANDARD OUNCES.				STANDARD OUNCES.			
Received				Delivered			
Balance				Ingot			
Contained in Gold Deposits	Sep. 1, 18	11	880	Bars, Fine			
Contained in Silver Deposits			8	Bars, Standard			
Contained in			32	Bars, Unparted			
Clippings, blanks, etc.			31	Bars			
	Re-Deposits		11	Sweeps			
			340				
Purchase bars			222				
G. & S. Exchs.			403				
Supt. Swps			340				
			47				
			82				
			20				
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Approved:

October 2 1911

Superintendent

Melter und Hefner

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence Account, M. & R. Dept., Sept., 1911

	Time Lost	Conduct	Workmanship
Bartlett, H.D.	4 hrs.	100	96
Borstadt, G.	-----	100	95
Bush, W.M.	-----	100	98
Crary, J.H.	-----	100	94
Dardis, W.N.	-----	100	94
Gray, G.B.	-----	100	96
Hetrich, J.M.	-----	100	100
Howbert, D.T.	3 hrs.	100	90
Lindhard, J.A.	-----	100	95
Lundin, A.H.	1 hr.	100	94
Russell, N.A.	-----	100	94
Schell, E.P.	5 hrs.	100	92
Smith, E.S.	-----	100	93
Spencer, G.N.	2 hrs. leave	100	96
" "	2 days sick		
St. John, F.	5 das. leave	100	100
Stoddard, X.T.	4 hrs. leave	100	98
Taggart, B.H.	-----	100	94
Whitaker, S.R.	4 hrs.	100	94
Whitehead, H.R.	-----	100	94
Wirth, B.P.	2 das.	100	100

Sept, 1.

REFINERY

1. Product: Gold	106,920.60	fine ozs.
Silver	65,784.85	" "
Total	172,705.25	" "

2. Costs:

a. Labor	\$1,277.89
b. Crucibles	41.47
c. Acids	269.85
d. Supplies	69.61
e. Mitts, gloves, aprons	43.11
f. Chemicals	5.00
g. Sweeps cellar	0.00
h. M. & R. Gen'l	386.87
i. Fuel	46.66
j. Steam	175.50
k. Power	157.99
l. Repairs	62.75
m. Light & Ventilation	7.00
n. Incidentals	16.05
o. Assays	104.90
p. Vacation & holidays	141.15
q. 1/11 shut-down expense	218.61
Total	3,024.21

3. New Equipment	71.53
Total expense	\$3,095.74

4. Crude bullion	151,841.79
5. Bullion .992 and over	10,638.30
6. Retreated	0.00
7. Bullion, no charges	51,412.88
Total operated upon	213,892.97

8. Cost per oz. total operated upon	.014138
9. Average " " " " "	.009577
10. Cost per crude ounce	.019916
11. Average " " " "	.012755

INGOT ROOM

1. Amount bullion melted: Silver	61,308.59
Bronze	586,445.90
2. Amount of good ingots: Dimes	60,324.05
Bronze	583,256.80

3. Cost of Ingots	Silver		Bronze		Total
	Amount	Per oz.	Amount	Per oz.	
a. Labor	\$65.12	.001080	\$477.81	.000819	\$542.97
b. M. & R. Gen'l	23.21	.000384	170.23	.000291	193.44
c. Mitts & Gloves	.71	.000011	15.86	.000027	16.57
d. Crucibles	0.00	.000000	79.49	.000136	79.49
e. Sweeps cellar	0.00	.000000	0.00	.000000	0.00
f. Supplies	1.19	.000019	52.62	.000090	53.81
g. Fuel	7.13	.000118	103.46	.000177	110.59
h. Power	2.72	.000045	19.97	.000034	22.69
i. Light & Ventil'n	.09	.000001	.68	.000001	.77
j. Repairs	2.55	.000042	16.67	.000032	21.22
k. Incidentals	.07	.000001	.43	.000001	.60
l. Vacation & H.	13.10	.000217	96.16	.000164	109.20
m. Alloy copper	46.36	.000768	0.00	.000000	46.36
Totals	162.29	.002690	1035.42	.001775	1197.71
4. New Equipment					230.17
			Total expense		\$1427.88

5. Percentage of good ingots: Silver, 98.3; Bronze, 99.4
6. Average cost of ingots for fiscal year; Silver, .003283; B. .001775
7. Cost distribution: Dimes 162.29
Cents 1035.42 \$1,197.71

Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of October, 1911.

STANDARD OUNCES.		STANDARD OUNCES.	
Received		Delivered	
Balance	Oct. 1, 1911	Ingots	23
Contained in Gold Deposits	619	U. S. Fine Certificate	200
Contained in Silver Deposits	84	Bars, Standard-Commercial	472
Contained in	6	Bars, Unparted	1
Clippings, blanks, etc.	108	Sweeps	805
	Oct. 31, 1911		211
Gold Exchange Bars	45		
	747		
Balance	819	Balance	794
	773		766
	231		538
			819
			773
			231

[illegible]

Approved

November 2 10.11.

Superincondenti.

Seventeenth
 Nelson and Refner
 3

MELTER AND REFINER'S OPERATIONS.

At Denver, Colorado 9th of the United States
Nov. 2nd, 1911-

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of October, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

TOTAL, OPERATED UPON.	WEIGHT OF METAL.				RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM STREBS.	FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.	Stand. oz.
Gold Ingots,								
Gold Bars,								
TOTAL,								
Silver Ingots,	587.023.84	574.226.15	12.227.89	539.80			198.23	341.57
Silver Bars,	2.586.38	2.586.38						
TOTAL,	589.610.22	576.812.53	12.227.89	539.80			198.23	341.57

I certify the above to be a correct statement.

Approved:

John W. Wilson
Melter and Refiner.

Superintendent

TO THE DIRECTOR OF THE MINT, WASHINGTON.

Mint of the United States at Denver.

Melter and Refiner's Bronze Account for the month of October, 1911.

Balance on Hand October 1, 1911	Std. Oze.
	884,170.04

Zinc received from Superintendent	29,181.25
tin " "	6,989.58
Cuttings " " "	164,657.80
	<hr/> 1,000,248.47

Invoice delivered to Superintendent

	763,564.50
--	------------

Balance on hand October 31, 1911

	<hr/> 237,534.17
--	------------------

Respectfully,

J. W. Milburn
Melter and Refiner.

RECORDED & INDEXED

MINT OF THE UNITED STATES AT DENVER,
MELTER AND FINER'S DEPARTMENT,

Absence, M. & R.'s Department, October, 1911.

	Time Lost	Conduct	Workmanship
Arnold, R.G. (detailled to Coiner all month)		100	96
Bartlett, H.D.	1 da. leave	100	95
Borstadt, G.	2-1/2 hrs. leave	100	99
Bush, W.M.	---	100	94
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	97
Gray, G.B.	---	100	100
Hetrich, J.M.	---	100	90
Howbert, D.T.	---	100	97
Lindhart, J.A.	4 hrs. leave	100	95
Lundin, A.H.	1 da. 6-1/2 hrs. lv.	100	95
Russell, N.A.	---	100	94
Schell, E.P.	4 hrs. leave	100	94
Smith, E.S.	2 das. sick	100	96
Spencer, G.N.	---	100	100
St. John, F.	3 das. 2 hrs. lv.	100	98
Stoddard, X.T.	5 hrs. leave	100	95
Taggart, B.H.	1 da. "	100	95
Whitaker, S.R.	---	100	95
Whitehead, H.R.	2-1/2 hrs. leave	100	100
Wirth, B.P.	1/2 hr. leave	100	

REFINERY

1. Product:	Gold	11,842.03	
	Silver	47,175.40	59,017.43 fine oza.
2. Costs:	a. Labor	\$466.64	
	b. Crucibles	41.47	
	c. Acids	17.33	
	d. Supplies	93.30	
	e. Mitts, gloves, aprons	28.05	
	f. Chemicals	5.00	
	g. Sweeps cellar	26.85	
	h. M. & R. Gen'l	305.18	
	i. Fuel	38.45	
	j. Steam	45.34	
	k. Power	33.48	
	l. Repairs	100.36	
	m. Light	4.12	
	n. Incidentals	0.00	
	o. Assays	88.56	
	p. Vacation & Holidays	29.44	
	q. 1/11 shut-down exp.	218.62	
	Total	1,532.19	
3. New Equipment		112.64	
	Total expense	\$1,644.83	

Nos. 4, 5, 6, & 7, nothing, as Refinery commenced clean-up for shut-down on the first of the month.

8. Not operating	
9. Average cost per ounce total operated upon,	.011769
10. Not operating	
11. Average cost per crude ounce	.015674

INGOT ROOM

1. Amount bullion melted:	Silver	589,610.22				
	Bronze	815,358.10				
2. Amount good ingots:	Half Dollars	419,197.45				
	Dimes	155,038.70				
	Exchange Bars	2,586.38	576,822.53			
	Bronze	809,386.40	1,386,208.93			
3. Cost of Ingots	Silver	Bronze	Total			
	Amount	Per oz.	Amount	Per oz.		
a. Labor	\$356.72	.000618	832.35	.001028	\$1,189.07	
b. M. & R. Gen'l	104.63	.000181	244.15	.000301	348.78	
c. Mitts & Gloves	25.81	.000044	36.27	.000044	62.08	
d. Crucibles	44.93	.000077	89.86	.000111	134.79	
e. Sweeps cellar	0.00	.000000	0.00	.000000	0.00	
f. Supplies	38.64	.000066	89.01	.000109	127.65	
g. Fuel	71.50	.000123	140.62	.000173	212.12	
h. Power	21.03	.000036	49.07	.000060	70.10	
i. Light	1.10	.000001	2.55	.000003	3.65	
j. Repairs	20.30	.000035	47.35	.000058	67.65	
k. Incidentals	0.00	.000000	0.00	.000000	0.00	
l. Vac. & Holidays	5.39	.000009	12.58	.000015	17.97	
m. Alloy Copper	531.71	.000921	0.00	.000000	531.71	
	Total	\$1,221.76	.002118	1,543.81	.001907	2,765.57
4. New Equipment						75.75
						\$2,841.32
						Total expense
5. Percentage of good ingots:	Silver, 97.8;	Bronze, 99.2				
6. Average cost of Ingots, fiscal year:	Silver, .002361;	Bronze, .001852				
7. Cost Distribution:	Half Dollars	\$391.90				
	Dimes	329.80				
	Bronze	1,543.81				\$2765.57

Refinery	12	19	4	734	20	091 ³	859		492	625	4	518	53
Experimentals	15	9	2	928	10	761 ²	215 ²	2	477	497		701	11
	16	18	4	611	60	193 ³	792		992	775	4	056	20
	17	19	4	785	55	162 ³	813		865	386	4	322	94
	18	16	3	574	80	062	869		246	264	3	451	66
	19	15	3	513	30	040 ¹	874 ²		157	122	3	413	75
	21	94	5	047	60	855 ³	135	4	799	426		757	14
	22	71	3	947	70	948 ²	050	4	160	437		219	31
	23	100	5	416	00	874 ³	114	5	264	051		686	02
	24	88	4	623	50	895	096 ²	4	597	813		495	74
	25	102	5	166	60	845 ²	149	4	853	733		855	76
	26	33	5	918	10	999	.4	6	571	721			
	27	89	4	526	40	876 ²	109 ²	4	408	210		550	71
	28	64	3	525	45	904 ³	082	3	544	056		321	20
	29	46	4	428	30		999				4	915	41
	30	10	3	257	55	726	244 ²	2	627	757		984	96
	31	112	6	159	00	955	044	6	535	383		301	10
	32	129	6	684	75	943	056	7	004	132		415	94
	33	17	4	352	00	135 ³	826 ²		656	426	3	996	56
	34	19	4	733	40	120 ¹	832 ²		632	434	4	378	70
	35	18	4	235	50	076 ³	840 ²		361	194	3	955	48
	36	96	5	142	80	866 ²	109	4	951	373		622	85
	37	101	5	477	00	853	121	5	190	978		736	35
Page	38	55	3	024	50	887 ³	092 ²	2	983	333		310	85
1	39	16	3	680	80	045	913 ²		184	040	3	736	01

113 494 50

74 548 166 48 605 57

Forward		113 49450				74 548166				48 608 15	
Refinery	40	18	3	970 20	051	896		224 978	3	952 55	
Exp'ls	41	63	3	276 10	906	090 ²	3	297 940		329 43	
	42	67	3	579 00	891 ²	104 ²	3	545 198		415 56	
	43	62	3	387 90	934 ²	064	3	517 769		240 91	
	44	83	4	619 30	885 ¹	109 ²	4	543 594		562 01	
	45	96	5	173 50	907	088 ²	5	213 738		508 72	
	46	129	7	026 00	898 ¹	094 ²	7	012 338		737 73	
	47	83	4	467 00	907	088	4	501 743		436 77	
	48	6		707 65	569 ²	421 ²		447 785		331 41	
	49	Imp. Strips	7	418 50		999			8	234 53	
	50	17	4	294 00	117 ¹	818 ²		559 412	3	905 15	
	51	16	3	817 00	057	870 ²		241 743	3	691 88	
	52	14	3	337 50	076 ¹	891 ²		282 760	3	305 97	
	53	13	2	700 50	043 ³	923		131 274	2	769 51	
	54	15	3	531 90	063 ¹	902 ²		259 987	3	541 71	
	55	21	2	522 80	373 ³	548		964 607	1	414 32	
	56	9	2	055 70	031	951		70 807	2	172 18	
	57	10	2	100 90	045	816		105 045	1	904 81	
Grand Sil. 3 bxs.			9	012 50		999			10	003 87	
Fine Gold Strips			2	227 90	999		2	472 969			
" " Hooks			1	538 00	999		1	740 480			
" " Cathodes			3	215 40	999		3	569 094			
Forward		147 303 75				111 251427				97 06260	

Forward

Gold	23	109	5	858 60	943 ³	031	6	143 393	201 79
Anodes	24	131	6	889 50	934 ²	039 ²	7	153 597	302 37
	25	117	6	299 70	938	040 ²	6	565 687	283 40
Silver	96	24	2	669 50	397 ³	507	1	179 770	1 503 83
Anodes	97	22	2	451 20	405	506 ²	1	103 040	1 379 48
	98	45	5	080 00	387	538	2	184 400	3 036 71
	99	45	5	067 30	398 ¹	520 ²	2	242 280	2 930 58
	100	44	4	865 50	408	523	2	205 693	2 827 38
	101	47	5	326 80	409	511 ²	2	420 734	3 027 38
	102	44	5	186 70	394 ¹	558 ²	2	272 062	3 218 63
	103	47	5	417 00	392	515	2	359 404	3 099 72
	104	44	5	030 00	391 ¹	508 ²	2	186 652	2 841 98
Exp'l	58	1&K		835 15	195 ²	403		181 413	373 98
Copper Base	59	13		963 90	012 ³	020		13 655	21 42
"	60	5	3	660 00	012 ³	019 ²		51 850	79 30
Exp'l	63	1		182 65	310	169 ²		62 912	34 38
Assay Samples to Settlement								72 058	67 40
Sweeps Tailings, Lot #2								25 728	226 87
TOTAL SETTLEMENT				263 087 25				155 675 755	122 521 24
Regular Returns prior to Settlement								273 410 833	197 912 66
Page				Total Returned				429 086 588	320 433 90
3				Total Charged				429 121 102	320 557 27
				Deficiency				34 514	123 81

U. S. MINT SERVICE.
FORM NO. 219.
Ed. Nov. 6-09-500-10 1/2 x 8.

MELTER AND REFINER'S BALANCES.

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of November, 1911.

GOLD.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance			Ingot			
Nov. 1, 1911	794	768	538				
Contained in Gold Deposits	102	537	231	Bars, Fine			
Contained in Silver Deposits	5	710	929	Bars, Standard			
Contained in	98	799	734	Bars, Unparted			
Clippings, blanks, etc.				Bars			
Re-Deposits				Sweeps			
Nov. 29, 1911							
	1	001	873	470	1	001	873
							470

SILVER.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.		
	Balance			Ingot			
Nov. 1, 1911	642	181	27				
Contained in Gold Deposits	11	572	28	Bars, Fine			
Contained in Silver Deposits	34	264	49	Bars, Standard			
Contained in	18	789	31	Bars, Unparted			
Clippings, blanks, etc.	124	769	95	Bars			
Re-Deposits				Sweeps			
Nov. 29, 1911							
	1	000	825	19	1	000	825
							19

Approved:

December 7, 1911.

John M. Johnston
Melter and Refiner

MELTER AND REFINER'S OPERATIONS.

At Denver, Colorado, Mint of the United States, Dec. 2, 1911

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of November, 1911, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TONGS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							0.712
Gold Bars,							0.712
TOTAL,							
Silver Ingots,	656.138.80	642.352.10	13.177.96		608.444		9284 515.60
Silver Bars,							
TOTAL,							

I certify the above to be a correct statement.

Approved:

Superintendent.

William H. Fisher
Melter and Refiner.

TO THE DIRECTOR OF THE MINT, Washington.

Absence, M. & R.'s Department, November, 1911.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	94
Bartlett, H.D.	1 da.	100	96
Borstadt, G.	2 "	100	96
Bush, W.M.	---	100	99
Crary, J.H.	2 das. (detailed to Coiner all month)	100	95
Dardis, W.N.	1 "	100	97
Gray, G.B.	1 "	100	100
Hetrich, J.M.	---	100	90
Howbert, D.T.	8 das.	100	97
Lindhard, J.A.	12-1/2 das.	100	95
" "	3 das. sick	100	95
Lundin, A.H.	9 das.	100	94
Russell, N.A.	2 hrs.	100	94
Schell, E.P.	3-1/2 hrs.	100	96
Smith, E.S.	1 da.	100	100
Spencer, G.N.	---	100	98
St. John, F.	2 das. 2 hrs.	100	95
Stoddard, X.T.	3 das.	100	95
Taggart, B.H.	2 das.	100	95
Whitaker, S.R.	4 das.	100	95
Whitehead, H.R.	3-1/2 hrs.	100	95
Wirth, B.P.	2 hrs. (detailed to Assayer all month)		

1. Product, None -- Refinery not operating

2. Costs:	a. Labor	\$152.08
	b. Crucibles	17.28
	c. Acids	12.25
	d. Supplies	20.82
	e. Mitts, gloves, aprons	0.00
	f. Chemicals	0.00
	g. Sweeps cellar	49.36
	h. M. & R. Gen'l	281.25
	i. Fuel	14.08
	j. Steam	8.32
	k. Power	2.60
	l. Repairs	49.36
	m. Light	4.32
	n. Incidentals	6.40
	o. Assays	13.76
	p. Vacation & Holidays	0.00
	q. 1/11 shut-down exp.	218.62
	Total	850.50

3. New Equipment	34.37
Total expense	\$884.87

Nos. 4, 5, 6, 7, 8, and 10, nothing -- not operating

9. Average cost per oz., total operated upon	0.012902 .012902
11. " " " crude oz.	0.017183 .017183

INGOT ROOM

1. Amount bullion melted: Silver	656,138.50	
Bronze	274,632.30	
2. Amount of good ingots: Dimes	642,352.10	
Bronze	271,468.00	913,820.10

3. Cost of Ingots	Amount	Silver Per oz.	Amount	Bronze Per oz.	Total
a. Labor	\$579.15	.000901	\$248.21	.000914	\$827.36
b. M. & R. Gen'l	241.02	.000375	103.29	.000380	344.31
c. Mitts & Gloves	15.98	.000024	6.01	.000022	21.99
d. Crucibles	41.47	.000064	31.10	.000114	72.57
e. Sweeps cellar	0.00	.000000	0.00	.000000	0.00
f. Supplies	48.26	.000075	16.05	.000059	64.31
g. Fuel	72.82	.000113	45.32	.000166	118.14
h. Power	21.21	.000033	9.09	.000033	30.30
i. Steam	28.00	.000043	12.00	.000044	40.00
j. Light	3.02	.000004	1.30	.000004	4.32
k. Repairs	41.12	.000064	17.62	.000064	58.74
l. Incidentals	0.00	.000000	0.00	.000000	0.00
m. Vac. & Holidays	148.38	.000230	63.59	.000234	211.97
n. Alloy copper	459.02	.000714	0.00	.000000	459.02
Totals	\$1,699.45	.002645	553.58	.002039	2,253.03
4. New Equipment					3.75
Total expense					\$2,256.78

5. Percentage of good ingots: Silver, 97.8; Bronze, 98.8

6. Average cost of ingots for fiscal year: Silver, .002655
Bronze .001905

7. Cost distribution: Dimes	\$1,699.45
Bronze	553.58
Total	\$2,253.03

MELTER AND REFINER'S BALANCES.

Mint

OF THE UNITED STATES AT

Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of December, 1911.

GOLD.

STANDARD OUNCES.			
Received	1	001	873
Balance	103	687	282
Contained in Gold Deposits	5	763	062
Contained in Silver Deposits	75	112	172
Contained in			
Clippings, blanks, etc.			
Re-Deposits			
G. Exchng. Bars		50	762
Supt. Sweeps bars		42	701
	1	186	529
			449

STANDARD OUNCES.			
Delivered			
Ingots			
Bars, Fine			
Bars, Standard			
Bars, Untreated			
Bars			
Sweeps			
Balance December 30, 1911	1	019	002
	1	186	529
			449

SILVER.

[illegible]

Approved:

January 2nd, 1912.

Superintendent

Melter and Refiner

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absences, M. & R.'s Department, December, 1911.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	94
Bartlett, H.D.	2 hrs.	100	96
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	---	100	97
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	90
* Lindhard, J.A.	3-1/2 hrs. lv.	98	97
"	5 das. without pay		
Lundin, A.H.	---	100	95
Russell, N.A.	---	100	95
Schell, E.P.	1 da. 1/2 hr.	100	94
Smith, E.S.	1-1/2 das. sick	100	94
Spencer, G.N.	1 hr. without pay	100	96
St. John, F.	2 das. 1-1/2 hrs.	100	100
Stoddard, X.T.	2 das. 3 hrs.	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	2 das.	100	95
Whitehead	---	100	95
Wirth, B.P.	3 hrs.	100	100
Cogan, J.C. (detailed)	3 hrs.	100	94
* Lindhard, J.A.	2 das. sick		

U. S. MINT SERVICE.
Form No. 63.
Ed. Oct. 22-08-500-8 x 10 1/2.

MELTER AND REFINER'S OPERATIONS.

of the United States

At _____, 19__

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of _____, 19__, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TORS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWELTERS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							
Gold Bars,							
TOTAL,							
Silver Ingots,							
Silver Bars,							
TOTAL,							

I certify the above to be a correct statement.

Melter and Refiner.

Approved:

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

Refinery Dec/11

1. Product: Gold 179,905.29 fine ozs.
 Silver 69,098.20
 To 849,803.49

2. Costs: a. Labor \$1,899.05
 b. Crucibles 82.94
 c. Acids 819.90
 d. Supplies 182.07
 e. Mitts, gloves, aprons 74.16
 f. Chemicals 10.00
 g. Sweeps cellar 0.00
 h. M. & R. Gen'l 417.37
 i. Fuel 111.10
 j. Steam 170.00
 k. Power 282.99
 l. Repairs 157.75
 m. Light 10.00
 n. Incidentals 12.30
 o. Assays 155.24
 p. Vacation & Holidays 89.73
 q. 1/11 shut-down expense 218.62
 Total 4,473.12
 3. New Equipment 10.15
 Total expense \$4,483.27

4. Crude Bullion with charges 303,111.49
 5. Bullion, .992 & over 36,305.15
 6. Retreated 0.00
 7. Bullion, no charges 364,327.29
 Total operated upon 703,743.93

8. Cost per oz. total operated upon .006356
 9. Average " " " " .009734
 10. Cost per crude ounce .014757
 11. Average " " " " .016335

12. Average per ounce, P. & R. charges collected .03304
 13. Total charges collected for month \$10,015.75
 14. Cost of operating Refinery 4,473.12
 Profit \$5,542.63

INGOT ROOM

1. Amount bullion melted -- all silver 400,661.49
 2. Good ingots -- Half Dollars 391,653.85

	Amount	Cost per oz.
3. Cost of Ingots		
a. Labor	\$278.02	.000709
b. M. & R. Gen'l	208.69	.000632
c. Mitts & Gloves	7.72	.000019
d. Crucibles	274.64	.000070
e. Sweeps cellar	0.00	.000000
f. Supplies	14.61	.000037
g. Fuel	44.44	.000113
h. Power	12.70	.000032
i. Steam	6.71	.000017
j. Light	.80	.000002
k. Repairs	29.83	.000076
l. Incidentals	3.55	.000009
m. Vacation & Holidays	37.34	.000095
n. Alloy Copper	193.60	.000494
Total	\$865.65	.002210

4. New Equipment 0.00
 Total expense \$865.65
 5. Percentage of good ingots, 97.7
 6. Average cost of ingots, fiscal year: Silver, .002573
 Bronze .001882
 7. Cost distribution: All silver, \$865.65

175, 203.28 line 028.	22.308, 871
" "	22.890, 88
" "	<u>25.879, 879</u>

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

January 23, 1912.

Hon. Frank M. Downer,

Superintendent, U. S. Mint, Denver.

Sir:

In answer to the Director's letter of the 12th inst., I consider it necessary to set out in detail my account with the Assayer for the last three fiscal years, on account of the difficulty, if not impossibility, of checking the Assayer's individual returns against any particular class of chips; and I therefore present the following statements for said years:

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Assayer in Account with Melter and Refiner, for Fiscal Year 1909:

	Std. ozs.			Std. ozs.	
	Au.	Ag.		Au.	Ag.
Deficit, fiscal yr., 1908	3.471	10.09	Ret'd by Assayer in bars, etc.		
Redel'y of proof, &c., Jul. 1, 1908	166.508	237.66	No. Bar		
Assay chips as follows:					
Gold Deposits	2,264.077	356.55	G. & S. Dep. Refinery	1	259.569
G&S Exchg. bars	4.204	5.65	G&S Dep. & Ref.	2	283.212
Silver Dep.	170.383	1176.92	" " "	3	543.951
Fine Metal	246.834	103.42	" " "	4	120.377
G. Anodes	64.496	3.85	" " "	5	210.160
S. Anodes	141.264	206.18	Sil. Chloride	6	229.692
Ingots	357.700	523.68	G&S Dep. & Ref.	7	0.000
Mass Melts	2.028	0.97	Gold Ingot	8	241.236
Settlement bars	15.645	14.25	Silver "	9	230.510
			G&S Dep.	10	0.000
Surplus	19.727	188.74	" " & Ref.	11	215.054
			" " "	12	279.327
			Sil. Ingot	13	260.536
			G&S Dep.	14	0.000
			P. Gold cor.	15	179.245
			G&S Dep.	16	30.300
			S. Chloride	17	203.512
			Proof metal	18	0.000
			Ing. samples		12.777
					417.16
					0.00
Totals	3,456.334	2827.96		3,456.334	2827.96

Chips, fiscal year 1909, Gold - 3266.6283 Silver - 2,391.47

It will be observed that in 1908 fiscal year the Assayer had a deficit which we carried forward as a balance against him to the following year. However, such practice has not obtained since that time.

MINT OF THE UNITED STATES AT DENVER.
MELTER AND REFINER'S DEPARTMENT.

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Assayer in Account with Melter and Refiner, for Fiscal Year 1910:

	Std. ozs.			Std. ozs.	
	Au.	Ag.		Au.	Ag.
Redel'y of proof, &c., Jul. 1, '09	169.657	417.16	Ret'd by Assayer in bars, &c. No. Bar		
Gold Deposits	1,600.495	242.62	G&S Dep.	1	216.673
Silver "	94.525	661.49	" "	2	134.977
G&S Exchg. bars	5.346	8.82	" "	3	152.140
Ingots	175.190	1.48	" "	4	141.728
Mass Melts	1.017	.80	Refinery	5	59.147
Experimentals	95.326	87.46	G&S Dep.	6	144.467
Gold anodes	28.384	1.09	Refinery	7	78.504
Silver "	163.781	230.57	G&S Dep.	8	106.923
Fine metal	187.655	149.40	Refinery	9	73.877
Settlement bars	8.569	12.72	G&S Dep.	10	159.694
Proof metal	33.421	0.00	" "	11	106.906
G.D. bars Nos. 964 & 1116	23.902	0.00	Refinery	12	43.796
			Ingot	13	156.940
			Refinery	14	54.743
			G&S Dep.	15	135.998
			Ing. cornets		
			& Ref.	16	110.065
			G&S Dep.	17	156.036
			Refinery	18	69.346
			G&S Dep.	19	133.894
			Sil. Dep.	20	3.282
			Pr. Cornets	21	84.134
			G&S Dep. & Ref.	22	165.073
			Proof metal		24.222
			Ingot chips		112.280
			Sweeps		3.856
Surplus	41.533	0.00	Wastage		0.000
Totals	2628.701	1811.41		2628.701	1811.41

Chips fiscal year, Gold, 2360.188 Silver, 1394.25

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT.

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Assayer in Account with Melter and Refiner, for Fiscal Year 1911:

	Std. ozs.			Std. ozs.	
	Au.	Ag.		Au.	Ag.
Redel'y of proof, &c., Jul. 1, '10	136.502	430.66	Ret'd by Assayer in bars, &c.		
Assay chips as follows:			No. Bar		
Gold Deposits	1562.526	239.11	G&S Dep.	1	210.066 87.38
Silver "	84.229	421.41	" "	2	255.686 95.27
Redeposits	785.109	282.41	Refinery	3	56.435 35.37
G&S Exchg. bars	9.330	6.74	G&S Dep.	4	185.046 56.26
Ingots	191.490	266.85	Refinery	5	22.167 5.00
Ing. Exper'ls	5.714	7.90	G&S Dep. & Ref.	6	32.523 2.04
Gold anodes	47.181	2.04	Fine gold	7	29.456 0.00
Silver "	140.314	200.02	" Silver	8	0.00 57.50
Fine metal	213.633	615.75	G&S Dep.	9	211.762 70.29
Ref. Exper'ls	23.874	63.40	Refinery	10	30.66 36.76
Mass melts	2.447	1.24	Fine Silver	11	0.00 89.88
G. Set'mt	8.173	1.35	" Gold	12	22.444 0.00
S. "	1.350	8.52	G&S Dep.	13	193.283 80.30
Cop. "	0.012	0.00	Refinery	14	2.381 31.97
Proof metal	163.958	0.00	Fine gold	15	27.350 0.00
			G&S Dep. &		
			Expls.	16	207.384 86.45
			Refinery	17	1.164 18.97
			Fine gold	18	.394 0.00
			Sil. Chloride	19	0.000 283.89
			G&S Dep.	20	224.289 88.09
			Refinery	21	18.270 19.40
			Fine gold	22	15.457 0.00
			Ing. cornets	23	23.796 0.00
			" chips	24	171.440 0.00
			" "	25	0.000 133.89
			Prf. cornets	26	35.886 0.00
			G&S Dep.	27	196.836 71.11
			Refinery	28	16.097 17.97
			Prf. Cornets	29	24.794 0.00
			Fine gold	30	22.986 0.00
			Prf. Cornets	31	9.620 5.10
			Refinery	32	12.249 17.57
			M&R Expls.	33	1.430 1.33
			G&S Dep.	34	183.779 64.68
			Ingots	35	0.000 14.34
			Purch. Sil.	36	0.000 104.65
			Fine metal	37	0.000 84.42
			G&S Dep.	38	200.919 72.38
			Refinery	39	10.574 15.72
			Fine metal	40	13.165 0.00
			Ing. Cornets	41	27.270 0.00
			Fine metal	42	26.798 0.00
			Refinery	43	13.805 13.88

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

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Relating to the last paragraph of said letter, I will answer in "full detail" as requested. Our "chip account" with the Assayer is obtained as follows:

The Assayer's certificate on bullion purchased contains three different weights: 1st, "Weight before Melting;" 2nd, "Weight after Melting and Deductions;" and 3rd, a weight placed on the lower line in the same column as the latter (No. 2), without any designation, but which is the actual bar weight after chipping for assay. No. 1 is not considered in our work. No. 2 is the paid weight, being the gross weight of bar as entered on our register of deposits. No. 3 is the actual weight of the bar as transferred to us by the Weight Clerk, and is also entered on our register of deposits. At the same time that we make an entry of a bar in our register of deposits, we take the difference between No. 2 and No. 3 weights, and enter it as the chip for said bar, which, with note of the fineness, completes the entry from the Assayer's certificate. This method covers all chips from gold deposits, silver deposits, and also gold and silver exchange bars; and the weight of the chip as thus obtained must be the correct weight, because its addition to the No. 3, or transfer, weight, must equal No. 2, the paid weight.

On re-deposits the method is as follows: Upon receipt of the invoice of a shipment of bullion from an assay office, we immediately copy it into a small blank book (about 5-1/2" x 7-3/4"), also entering our re-deposit number. The shipment is then weighed, and the weights are checked by a representative from this department; and after the Assayer has chipped the bars, said representative of

MINT OF THE UNITED STATES AT DENVER,

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MELTER AND REFINER'S DEPARTMENT,

the Melter and Refiner checks the weighing of the chips and enters the weights of same in said book; and after the Assayer's certificate of assay of said shipment is completed, we check back the weights with said book, and enter them in our register of re-deposits.

On Refinery work the method is as follows: The foreman of the Refinery is furnished with an "Assayer's clips" book, Form 527, and when he has any chips or granulations from melts of gold anodes, silver anodes, fine metal, experimentals, settlement bullion, or anything else, he takes them over to the Assayer, checks their weighing, and enters the weights with proper designations in said book, and the Assayer or his assistant signs his name in said book as a receipt for the chips. Said book is returned to the M. & R. office daily, and the chips shown therein are entered with their proper designation in a book kept for that purpose, as a charge against the Assayer.

On Ingot work the method is the same as on Refinery work, the foreman of the Ingot room being furnished with said Form 527, "Assayer's clip" book, and when he presents any ingot chips or granulations or experimentals to the Assayer, they are weighed, checked, entered in said book and the book signed by the Assayer or his assistant as a receipt. This Ingot book is also returned to the M. & R. office daily for proper posting of its contents.

All certificates of assay in any way relating to this department are returned to the M. & R. office by the Assayer, and are properly posted in the various records.

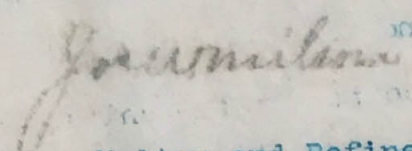
MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

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Each chip, of whatever kind or nature, is separately calculated at the reported fineness (except fine metal which is calculated at 1000 fine and purchase silver at 999 fine). From time to time our chip calculations are checked with like calculations of the Assayer's calculating clerk, and at the end of the month our ledger is posted against the Assayer. This account runs open throughout the year, and is only closed at the time of annual settlement, although we have monthly balances, checked by the Assayer, to give us a line on the amount due this department.

Respectfully,


Melter and Refiner.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

January 23, 1912.

Hon. Frank M. Downer,
Superintendent U. S. Mint,
Denver.

Sir:

On Seattle shipment No. 12, under date of Dec. 8, 1911, the rate for P. & R. charges was not entered on the invoice, ^{we} as were notified it would be by Director's letter of Nov. 10, 1911. To keep our Refinery accounts correctly, we should have this rate on each shipment as originally assessed by the assay offices.

Respectfully,

John Williams
Melter and Refiner.

Cost

Supplemental Report, Denver Refinery, August, 1911:

12. Average per ounce, P. & R. charges, collected		.031114
13. Total charges collected for month	\$12,810.11	
14. Cost of operating Refinery	<u>4,164.45</u>	
Profit	\$8,645.66	

Supplemental Cost Report, Denver Refinery, September, 1911:

13. Average per ounce, P. & R. charges, collected		.034499
13. Total charges collected for month	\$5,238.47	
14. Cost of operating Refinery	<u>3,024.21</u>	
Profit	\$2,214.26	

Refinery did not operate in July, October, and November, 1911.

January 23, 1912.

MELTER AND REFINERS BALANCES.

Mint _____ OF THE UNITED STATES AT _____ Denver
Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the
Superintendent of the Mint _____ by him during the month of January _____, 1912.

GOLD.

STANDARD OUNCES.				STANDARD OUNCES.			
Received		Delivered		Received		Delivered	
Balance *	Jan. 1, 1912	1	019	902	199	Ingots	212
Contained in Gold Deposits			91	843	009	Bars, Fine (Certificate)	617
Contained in Silver Deposits			5	477	622	Bars, Standard	175
Contained in _____			104	209	306	Bars, Unparted	
Shipments, blanks, etc.				85	983	Bars	
						Sweeps	
(Mint Fine	33,254.153)					(Mint Fine	39,838.633)
(Unrefined	986,648.045)					Balance (Unrefined	969,063.511)
(Total	1,019,902.199)	1	221	518	119	1	008
						1	221
							518
							119

SILVER.

STANDARD OUNCES.				STANDARD OUNCES.			
Received		Delivered		Received		Delivered	
Balance *	Jan. 1, 1912	701	591	89		Ingots	230
Contained in Gold Deposits		9	637	98		Bars, Fine	253
Contained in Silver Deposits		26	315	27		Bars, Standard	75
Contained in _____		53	616	29		Bars, Unparted	
			98	84		Bars	
Shipments, blanks, etc.						Sweeps	
(Mint Fine	73,711.16)					(Mint Fine	141,419.79)
(Purchase	16,872.00)					(Purchase	16,872.00)
(H.D. Ingots	230,265.75)					Balance (C. Coin &c	6,326.60)
(C. Coin &c	6,326.60)					(Unrefined	396,609.12)
(Unrefined	371,438.38)	791	260	27			561
(Total	701,591.89)						260
							27

Approved:

February 1 1912.

Superintendent.

Seemuland

Melter and Refiner.

U. S. MINT SERVICE.
Form No. 65.
Ed. Oct. 22-06-800.-5x10 1/2

MELTER AND REFINER'S OPERATIONS.

At Denver, Colorado, Smith of the United States
February 1st, 1912

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of January 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN POUR, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.
Gold Ingots,	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Bars,							
TOTAL,							
Silver Ingots,							
Silver Bars,							
TOTAL,							

The only operations in the August room during the month of January consisted of a little experimental work on metal ingots.

I certify the above to be a correct statement.

Forstermeister
Melter and Refiner.

Approved:

To the Director of the U. S. Mint, Washington.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absences, January, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G. - - - -	4 das. sick	100	94
" " - - - -	1 da. 1-1/2 hrs. lv.		
Bartlett, H.D. - - - -	2 das. sick	100	96
" - - - -	2 hrs. lv.		
Borstadt, G. - - - -	1/2 hr. lv.	100	95
Bush, W.M. - - - -	---	100	99
Crary, J.H. - - - -	1-1/2 hrs. lv.	100	95
Dardis, W.N. - - - -	---	100	95
Gray, G.B. - - - -	2 das. sick	100	97
Hetrich, J.M. - - - -	---	100	100
Howbert, D.T. - - - -	---	100	90
Lindhard, J.A. - - - -	---	100	97
Lundin, A.H. - - - -	---	100	95
Russell, N.A. - - - -	---	100	95
Schell, E.P. - - - -	7 hrs. lv.	100	94
Smith, E.S. - - - -	2 hrs. lv.	100	94
Spencer, G.N. - - - -	3 das. sick	100	96
" - - - -	3 hrs. lv.		
St. John, F. - - - -	1/2 hr. lv.	100	100
Stoddard, X.T. - - - -	2 hrs. lv.	100	98
Taggart, B.H. - - - -	6 das. lv.	100	95
Whitaker, S.R. - - - -	---	100	95
Whitehead, H.R. - - - -	---	100	95
Wirth, B.P. - - - -	1-1/2 hrs. lv.	100	100

Jan

Feb/12

REFINERY		
1. Product:	Gold	197,351.64 fine ozs.
	Silver	98,812.56 "
	Total	296,170.19 "
2. Costs:		
a. Labor	\$ 1,892.95	
b. Crucibles	96.77	
c. Acids	535.39	
d. Supplies	199.77	
e. Mitts, gloves, aprons	88.09	
f. Chemicals	10.00	
g. Sweeps cellar	56.55	
h. M. & R. Gen'l	648.33	
i. Fuel	125.40	
j. Steam	200.89	
k. Power	299.94	
l. Repairs	182.05	
m. Light	11.00	
n. Incidentals	9.85	
o. Assays	215.81	
p. Vacation & H.	149.94	
q. 1/12 shut-down	218.62	
	Total	4,901.85
3. New Equipment	198.45	
Total expense	\$5,100.30	

4. Crude bullion with charges	288,929.02
5. Bullion, .992 and over	8,941.71
6. Retreated	39,885.40
7. Bullion, no charges	84,549.89
Total operated upon	422,306.02
8. Cost per ounce total operated upon	.011607
9. Average " " " "	.010156
10. Cost per crude ounce	.016965
11. Average " " " "	.016492
12. Average per ounce P. & R. Charges collected,	.037065
13. Total charges collected for month,	\$10,709.16
14. Cost of operating Refinery	4,901.85
Profit	\$5,807.31

INGOT ROOM

(Ingot Room operated only 3 days, and that was on first nickel work)

1. Amount bullion melted, all nickel	38,500.00
2. Amount good ingots, nickels	36,234.90

3. Cost of ingots	Amount	Cost per oz.
a. Labor	\$36.14	.000997
b. M. & R. Gen'l	109.66	.003026
c. Mitts & gloves	8.80	.000242
d. Crucibles	10.32	.000284
e. Sweeps cellar	0.00	.000000
f. Supplies	14.95	.000412
g. Fuel	12.54	.000346
h. Power	14.60	.000402
i. Steam	4.00	.000110
j. Light	.25	.000006
k. Repairs	14.20	.000391
l. Incidentals	0.00	.000000
m. Vacation & Holidays	2.22	.000081
	0.00	.000000
Totals	\$228.40	.006303

4. New Equipment	0.00	
Total expense	\$228.40	
5. Average cost of ingots, fiscal year:		5. Percent. good ingots, 94.1
		Silver, .002573
		Bronze, .001882
		Nickel, .006303

Cost distribution, all nickels, \$228.40

Mint *OF THE UNITED STATES AT* Denver
Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the
Superintendent of the Mint by him during the month of February 19 12.

GOLD.

[illegible]

Approved

Schizanthum

43

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absences, February, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95
Bartlett, H.D.	1 day sick	100	96
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	---	100	97
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	90
Lindhard, J.A.	---	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	6 hrs. leave	100	95
Schell, E.P.	1 da., 6-1/2 hrs	100	94
Smith, E.S.	---	100	94
Spencer, G.N.	---	100	96
St. John, F.	1 da., 4 hrs.	100	100
Stoddard, X.T.	---	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	1 da leave	100	95
Whitehead, H.R.	1/2 hr.	100	95
Wirth, B.P.	1-1/2 hr.	100	100
Peterson, O. (from Gen'l Dept.)	---	100	93

U. S. MINT SERVICE.
Form No. 63.
Ed. Oct. 22-08-500-53 10%

MELTER AND REFINER'S OPERATIONS.

At Denver, Colorado, Month of the United States, March, 1912.

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of February, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS, FROM OTHER SOURCES.	APPARENT NET LOSS.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							
Gold Bars,							
TOTAL,							
Silver Ingots,							
Silver Bars,							
TOTAL,							

As gold or silver operations in August from in February 1912.

I certify the above to be a correct statement.

Approved:

Superintendent.

Securities
Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

Refinery

1. Product: Gold	193,745.67	fine	ozs.
Silver	92,345.10	"	"
Copper	4,868.40	"	"
Total	290,959.17	"	"

2. Costs: a. Labor	\$1,716.83	
b. Crucibles	89.85	
c. Acids	475.24	
d. Supplies	182.08	
e. M., G., Aprons	64.03	
f. Chemicals	51.00	
g. Sweeps cellar	0.00	
h. M. & R. Gen'l	414.73	
i. Fuel	123.20	
j. Steam	160.00	
k. Power	264.32	
l. Repairs	99.00	
m. Light	11.00	
n. Incidentals	15.40	
o. Assays	236.41	
p. Vacation & Hol.	76.50	
q. 1/8 shut-down exp	218.62	\$4,152.21
Less cost of copper		19.91
Total		\$4,132.30
3. New Equipment		161.50
Total expense		\$4,293.80

4. Crude bullion with charges	221,170.77
5. Bullion .992 & over	12,737.49
6. Retreated	45,803.45
7. Bullion, no charges	91,319.25
Total operated upon	371,030.96

8. Cost per ounce total operated upon	.011137
9. Average ditto	.010318
10. Cost per crude ounce	.018683
11. Average ditto	.016844
12. Average per ounce P. & R. Chgs. collected	.036533

13. Total charges collected for month	\$8,080.19
14. Cost of operating Refinery	4,132.30
Profit	\$3,947.89

Ingot Melting

1. Amount bullion melted -- nickel	417,341.10
2. Amount of good ingots -- nickel	411,934.20

3. Cost of Ingots	Amount	Cost per oz.
a. Labor	\$355.56	.000863
b. M. & R. Gen'l	207.36	.000503
c. Mitts & Gloves	19.48	.000047
d. Crucibles	58.14	.000141
e. Sweeps cellar	46.85	.000113
f. Supplies	32.75	.000079
g. Fuel	98.12	.000238
h. Power	19.56	.000047
i. Steam	3.49	.000008
j. Light	0.23	.000001
k. Repairs	39.23	.000092
l. Incidentals	3.00	.000007
m. Vacation & Holidays	23.61	.000057
Total	\$906.38	.002200
	62.15	
	\$968.53	

4. New Equipment		
Total expense		
5. Percentage of good ingots, 98.7		(Nickel, .002532)
6. Av. Cost of Ingots, fiscal yr. Silver, .002573; Bronze, .001882		
7. Cost distribution -- all nickel, \$906.38		

GOLD.

SILVER.

Amended:

Apr 11 1 19 18

Superintendent

Polyniæon
Halter und Rechner
3

U. S. MINT SERVICE.
Form No. 65.
1st. Oct. 22-08-500.-8 x 10 1/2.

MELTER AND REFINER'S OPERATIONS.

of the United States

At Beaumont, Nebraska, 1912

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of March, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL				RECOVERY.		
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPE, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWELPS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	FROM OTHER SOURCES. <i>Aug 11/12</i>	Stand. ozs.
Gold Ingots,							
Gold Bars,							
TOTAL,							
Silver Ingots,							
Silver Bars,							
TOTAL,							

No gold or silver operations in August 1912.

431.96 24.93

456.89

83.132 2.652

85.784

I certify the above to be a correct statement.

Approved:

Beaumont
Melter and Refiner.

Subs. Independent.

TO THE DIRECTOR OF THE MINT, WASHINGTON

U. S. MINT SERVICE.
Form No. 65.
Ed. Oct. 22-08-500.-8 x 10 1/2

MELTER AND REFINER'S OPERATIONS.

Corrected Statement
Net change of silver from March 1st to Aug 31st

At *Denver Colorado*, *March* of the United States, *April 2nd*, 1912

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of *March*, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.				RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TORS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,									
Gold Bars,									
TOTAL,									
Silver Ingots,									
Silver Bars,									
TOTAL,									

To gold or silver operations in August from in March 1912

431.96 22.91 1454.87

85732 2652 85784

10 gold & silver operations in August from March 1912

431.96 22.91

1454.87

887.32 26.52

85.784

I certify the above to be a correct statement.

Approved:

Boettcher

Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, March, 1912

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95
Bartlett, H.D.	---	100	96
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Crary, J.R.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	---	100	97
Hetrich, J.L.	---	100	100
Howbert, D.T.	---	100	90
Lindhard, J.A.	---	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	---	100	95
"	2 hrs. leave		
Schell, E.P.	3 hrs. das. sick	100	94
Smith, E.S.	3-1/2 hrs. leave	100	94
Spencer, G.N.	---	100	96
St. John, F.	2 hrs. leave	100	100
Stoddard, X.T.	2 hrs. leave	100	98
Taggart, B.H.	1 day leave	100	95
Whitaker, S.R.	---	100	95
Whitehead, H.R.	---	100	95
Wirth, B.P.	---	100	100
	2 hrs. leave		
Peterson, O. (from Gen'l Dept.)	---	100	95

MCD/12

REFINERY

1. Product: gold	210,957.39	fine	ozs.
Silver	142,699.75	"	"
Total	353,657.14	"	"

2. Costs:	a. Labor	\$1,855.61
	b. Crucibles	100.98
	c. Acids	521.47
	d. Supplies	183.69
	e. Mitts, gloves, aprons	81.70
	f. Chemicals	5.00
	g. Sweeps cellar	0.00
	h. M. & R. Gen'l	434.10
	i. Fuel	129.33
	j. Steam	210.00
	k. Power	264.80
	l. Repairs	239.13
	m. Light	12.00
	n. Incidentals	11.65
	c. Assays	256.60
	p. Vacation & Holidays	31.73
	q. 1/8 shut-down expense	218.62
		<u>4,546.44</u>
3. New Equipment		233.11
Total expense		<u>\$4,779.55</u>

4. Crude bullion, with charges	272,580.38
5. Bullion, .992 and over, gold	9,927.75
6. Retreated	30,888.90
7. Bullion, no charges	96,330.73
Total operated upon	<u>409,727.76</u>

8. Cost per ounce total operated upon	.011096
9. Average ditto	.010433
10. Cost per crude ounce	.016679
11. Average ditto	.016817
12. Average per ounce P. & R. Chgs . collected	.036655

13. Total charges collected for month	\$9,991.61
14. Cost of operating Refinery	<u>4,546.44</u>
Profit	<u>\$5,445.17</u>

INGOT MELTING

1. Amount bullion melted -- all nickel	544,189.60
2. Amount good ingots	<u>540,111.40</u>

3. Cost of ingots:	Amount	Cost per oz.
a. Labor	\$388.22	.000718
b. M. & R. Gen'l	217.05	.000401
c. Mitts & gloves	18.76	.000034
d. Crucibles	73.44	.000135
e. Sweeps cellar	93.92	.000173
f. Supplies	66.19	.000122
g. Fuel	114.40	.000211
h. Power	32.00	.000059
i. Steam	5.92	.000010
j. Light	.53	.000001
k. Repairs	41.02	.000075
l. Incidentals	0.00	.000000
m. Vac. & Holidays	.95	.000001
	<u>1,052.40</u>	.001948
	0.00	
4. New Equipment	<u>\$1,052.40</u>	
Total expense		

5. Percentage of good ingots: 99.2	
6. Average cost of ingots for fiscal year: Silver,	.002573
Bronze,	.001882
Nickel,	.002213
7. Cost distribution -- all nickel, \$1,052.40	

U. S. MINT SERVICE.
Form No. 219.
Ed. Nov. 2-00-500-110 1/2 x 8.

MELTER AND REFINER'S BALANCES.

Mint OF THE UNITED STATES AT Denver

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of April, 1912.

GOLD.

Received	Balance	*Apr. 1, 1912	STANDARD OUNCES.			Delivered	Balance	*Apr. 1, 1912	STANDARD OUNCES.		
Contained in Gold Deposits			841	212	649	Ingot	(Refined 30,719.000)		244	832	073
Contained in Silver Deposits			101	019	860	Bars, Fine	(Unref. 810,493.649)				
Contained in			5	745	909	Bars, Standard					
Chippings, blanks, etc.			59	897	992	Bars, Unparted					
						Bars					
Re-Deposits						Sweeps	Ingot		23	734	
G. Exchg. bars				44	218		(Refined 21,551.000)				
S. " "				4	084	Bars (Unref'd)	741,517.695		762	068	995
									1	007	914 702

SILVER.

Received	Balance	*Apr. 1, 1912	STANDARD OUNCES.			Delivered	Balance	*Apr. 1, 1912	STANDARD OUNCES.		
Contained in Gold Deposits			883	160	39	Ingot	(Refined 317,217.98)		501	540	15
Contained in Silver Deposits			10	025	37	Bars, Fine	(Unref'd 6,386.00)				
Contained in			84	296	53	Bars, Standard					
Chippings, blanks, etc.			28	714	28	Bars, Unparted					
			342	133	65	Bars					
				13	15	Sweeps	Ingot		172	21	
G. Exchg. bars				93	82		(Refined 151,960.60)				
S. " "						Bars (Unref'd)	128,006.80		596	972	35
Proof silver							(Unref'd 308,314.85)		1	098	492 39

Approved: John W. Miller
Superintendent.
Melter and Refiner.

MELTER AND REFINER'S OPERATIONS.

of the United States

At Denver Colorado, May 3rd, 1912

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of April, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,						23,734	14,140
Gold Bars,							
TOTAL,							37,874
Silver Ingots,	639,882.20	627,044.45	12,013.94		823.85	172.21	304.29
Silver Bars,							34,735
TOTAL,							

I certify the above to be a correct statement.

Approved:

Severance
Melter and Refiner.

Superintendent.

To the DIRECTOR OF THE MINT, Washington.

RECEIPTS AND PAYMENTS

DENVER, COLO. JAN 20 1900

1900

MINOR COINAGE

SLIP

NICKEL

RECEIVED

PAID

00 337 833

Delivered

337 337 000 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

RECEIVED

PAID

00 337 833

Delivered

337 337 000 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

33 334 333

Delivered

33 334 333 1

Slip, 1.00

Balance

U. S. MINT
DENVER, COLO.
JAN 20 1900

MELTER AND REFINER'S BALANCES

Mint
OF THE UNITED STATES AT
Denver

Minor Coinage
~~Gold and Silver~~ Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the ^{the}

Superintendent of the Mint by him during the month of April, 1918.

NICKEL
~~GOLD.~~

STANDARD OUNCES.				STANDARD OUNCES.			
Received							
Balance							
	* Apl. 1	1913					
Contained in Gold Deposits							
Contained in Silver Deposits							
Contained in							
Copper, Blank, etc.							
* Cu	937,458.33						
Ni	267,375.00						
Ingot	21,860.00						
	709.40						
Clean-up	6,020.60						
Waste	1,233,423.33						
	1	233	423	33			
Delivered							
Ingot							
Bar, Fine							
Bar, Standard							
Bar, Treated							
Bar							
Sweep							
Copper	937,458.33						
Nickel	267,375.00						
Clean-up	709.40						
Waste	6,020.60						
	1	21	860	00			
	1	233	423	33			

~~SILVER.~~
BRONZE

[illegible]

Approved:

May 3, 1911

Superior Conduct

John W. Alden
Mother and Refiner
34

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT.

Attendance, Conduct, and Workmanship, April, 1912 *from*

	Time Lost	Conduct	Workmanship
Arnold, R.C.	---	100	95
Bartlett, R.D.	---	100	96
Borstatt, G.	1/2 hr. lv.	100	95
Bush, W.J.	---	100	99
Crary, J.D.H.	---	100	95
Dardis, W.M.	---	100	95
Gray, C.B.	---	100	97
Hetrick, J.M.	---	100	100
Howbert, D.T.	1 day sick	100	90
Lindhard, C.A.	---	100	97
Lundin, A.R.	---	100	95
Russell, M.H.	---	100	95
Schell, E.P.	6 hrs. leave	100	94
Smith, E.S.	---	100	94
Spencer, C.N.	1 day, 1 hr. leave	100	96
St. John, F.	1/2 hr. "	100	100
Stoddard, K.T.	---	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	---	100	95
Whitehead, W.R.	---	100	95
Wirth, E.P.	8 da. leave	100	100
"	out on official business, Apl. 4-21		
Peterson, O.	---	100	95

		REFINERY		Apr 1/12	
1. Product	Gold	212,190.86	fine	ozs.	
	Silver	143,286.30	"	"	
	Total	355,477.16	"	"	
2. Costs:	a. Labor	\$1,787.70			
	b. Crucibles	91.80			
	c. Acids	441.66			
	d. Supplies	184.67			
	e. Mitts, Gl'v, Aprons	102.08			
	f. Chemicals	10.00			
	g. Sweeps cellar	139.46			
	h. M. & R. Gen'l	433.81			
	i. Fuel	135.96			
	j. Steam	145.46			
	k. Power	280.35			
	l. Repairs	106.48			
	m. Light	10.00			
	n. Incidentals	25.05			
	o. Assays	174.13			
	p. Vacation & H'days	56.63			
	q. 1/8 shut-down exp.	218.62			
		4,343.86			
3. New Equipment		1.00			
	Total expense	\$4,344.86			
4. Crude bullion with charges		308,268.95			
5. Bullion, .992 and over, Gold		12,344.07			
6. Retreated		55,152.30			
7. Bullion, no charges		111,939.16			
	Total operated upon	487,724.48			
8. Cost per oz. total operated upon		.008906			
9. Average ditto		.010200			
10. Cost per crude ounce		.014090			
11. Average ditto		.016387			
12. Average per oz. P&R chgs. collected		.037352			
13. Total charges collected for month		\$11,515.36			
14. Cost of operating Refinery		4,343.86			
	Profit	\$7,171.50			

INGOT ROOM					
1. Amount bullion melted -- all Silver		639,882.20			
2. Amount good ingots -- all dimes		627,044.45			
3. Cost of ingots	Amount	Cost per oz.			
a. Labor	\$384.57	.000613			
b. M. & R. Gen'l	216.90	.000345			
c. Mitts & Gloves	11.50	.000018			
d. Crucibles	47.59	.000075			
e. Sweeps cellar	0.00	.000000			
f. Supplies	20.47	.000032			
g. Fuel	62.92	.000100			
h. Power	28.25	.000045			
i. Steam	5.00	.000007			
j. Light	.80	.000001			
k. Repairs	27.79	.000044			
l. Incidentals	0.00	.000000			
m. Vacation & holidays	4.59	.000007			
n. Alloy copper	266.06	.000424			
	Total	1,076.44		.001716	
		0.00			
4. New Equipment		\$1,076.44			
	Total expense				
5. Percentage of good ingots, 97.9					
6. Average cost of ingots for fiscal year:	Silver,	.002377			
	Nickel	.002213			
	Bronze	.001882			
7. Cost distributed -- all Dimes					

REFINERY

April/12

1. Product: Gold	212,190.86	fine ozs.
Silver	143,286.30	" "
Total	<u>355,477.16</u>	
2. Costs: a. Labor	\$1,787.70	
b. Crucibles	91.80	
c. Acids	441.66	
d. Supplies	184.67	
e. Mitts, Gloves, Aprons	102.08	
f. Chemicals	10.00	
g. Sweeps cellar	139.46	
h. M. & R. Gen'l	433.81	
i. Fuel	135.96	
j. Steam	145.46	
k. Power	280.35	
l. Repairs	106.48	
m. Light	10.00	
n. Incidentals	25.05	
o. Assays	174.13	
p. Vacation & H'days	56.63	
q. 1/8 shut-down exp.	218.62	
	<u>4,343.86</u>	
3. New Equipment	1.00	
Total expense	<u>\$4,344.86</u>	
4. Crude bullion with charges:		
4/10d	115.30	ozs.
3/4	10,903.17	
1	18,035.51	
1-1/4	3,449.23	
1-1/2	67.88	
2	33,964.72	
2-1/2	379.57	
2-3/4	160.22	
3-1/2	422.71	
4	237,687.13	
4-1/2	273.88	
5	1,973.28	
5-1/2	238.74	
6	493.37	
6-1/4	54.07	
7-3/4	70.17	
		308,288.95
xxxxxx bullion with charges		12,344.07
5. Bullion, .992 and over, Gold		55,152.30
6. Retreated, Mint fine silver		1,372.46
7. Bullion, no charges: Gold		110,566.70
Silver		<u>487,724.48</u>
Total operated upon		
8. Gold bullion used direct through gold cells		66,616.05
9. " " alloyed with silver for silver cells		191,136.57
		<u>62,880.40</u>
10. Silver bullion		320,633.02
Total crude (including .992 and over)		
11. Cost per oz. total operated upon	.008906	
12. Average ditto	.010200	
13. Cost per crude ounce	.014090	
14. Average ditto	.016387	
15. Average per oz. P&R chgs. collected	.037352	
16. Total charges collected for month	\$11,515.36	
17. Cost of operating Refinery	<u>4,343.86</u>	
Profit	<u>\$7,171.50</u>	

U. S. MINT SERVICE.
Form No. 219,
Ed. Nov. 6-00-300-10 1/2 x 8.

MELTER AND REFINER'S BALANCES.

Mint _____ OF THE UNITED STATES AT _____ Denver _____

Gold and Silver Bullion Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint _____ by him during the month of May _____, 1912.

GOLD.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.
	Balance				
* May 1, 19					
Contained in Gold Deposits	763	068	895	(Refined 21,551.000) (Unref'd 741,517.895)	
Contained in Silver Deposits	83	512	620	Ingots	
Contained in	5	201	888	Bars, Fine Certificate	203 889 021
Clippings, blanks, etc.	55	908	709	Bars, Standard	
				Bars, Unparted	
				Bars	
G&S Exchg. bars		46	052	Sweeps	
	907	738	164	(Refined 49,694.900 (Unref'd 654,154.233)	703 849 133

SILVER.

Received	STANDARD OUNCES.			Delivered	STANDARD OUNCES.
	Balance				
* May 1, 1912					
Contained in Gold Deposits	586	972	05	(M. Fine 152,960.60 (Ingots 125,696.80) (Unref'd 308,314.63)	
Contained in Silver Deposits	9	360	27	Ingots	
Contained in	31	807	46	Bars, Fine	490 079 80
Clippings, blanks, etc.	20	959	68	Bars, Standard	
	196	321	45	Bars, Unparted	
				Bars	
G&S Exchg. bars		245	40	Sweeps	
	844	666	29	(Mint Fine 72,902.82 (Ingots, &c 73,483.60 (Unref'd 208,200.07)	354 586 42

Approved:

June 1 1912.

Superintendent.

Melter and Refiner.

U. S. MINT SERVICE.
FORM NO. 65.
Ed. Oct. 22-08-600.-5 x 10 1/2.

MELTER AND REFINER'S OPERATIONS.

At Denver, Colorado, June 3rd, 1912
of the United States

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of May, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.					
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,						16.200	12.661		28.861
Gold Bars,									
TOTAL,									
Silver Ingots,	446.961.96	437.337.80	9.133.63		456.03	120.01	264.15	56.37	
Silver Bars,									
TOTAL,									

I certify the above to be a correct statement.

Approved:

Frederick W. Meier
Melter and Refiner.

Superintendent,

To the DIRECTOR OF THE MINT, Washington.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship, May, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95
Bantlett, H.D.	2-1/2 hrs. lv.	100	96
Berstadt, G.	---	100	95
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95
Dardie, W.N.	4 das. sick	100	95
Gray, G.B.	---	100	97
Hettrich, J.M.	---	100	100
Howbert, D.T.	---	100	90
Lindhard, J.A.	---	100	97
Lordin, A.H.	1/2 hr. lv.	100	95
Russell, N.A.	---	100	95
Schell, E.P.	2 hrs. lv.	100	94
Smith, E.S.	---	100	94
Spencer, G.E.	4-1/2 hrs. lv.	100	96
St. John, F.	1/2 hr. lv.	100	100
Stoddard, X.T.	---	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	---	100	95
Whitehead, H.R.	---	100	95
Wirth, E.P.	1 day lv.	100	100
Peterson, O.	---	100	95

REFINERY

May/22

1. Product: Gold	208,941.55	fine ozs.
Silver	183,366.45	" "
Total	392,308.00	" "
2. Costs:		
a. Labor	\$1,803.06	
b. Crucibles	88.74	
c. Acids	491.53	
d. Supplies	173.48	
e. Mitts, gloves, aprons	87.15	
f. Chemicals	10.00	
g. Sweeps cellar	111.87	
h. M. & R. Gen'l	428.48	
i. Fuel	129.58	
j. Steam	140.00	
k. Power	310.90	
l. Repairs	127.32	
m. Light	11.00	
n. Incidentals	8.25	
o. Assays	210.36	
p. Vacation & Holidays	76.27	
q. 1/8 shut-down expense	218.62	
Total	4,426.41	
3. New equipment	2.00	
Total expense	\$4,428.41	
4. Crude bullion with charges:		
3/4	16,553.28	ozs.
1	1,081.68	
1-3/4	137.20	
2	15,989.26	
2-3/4	2,991.38	
3	24.53	
3-1/2	142.80	
3-3/4	141.10	
4	155,000.38	
4-1/2	952.88	
5	207.44	
5-1/2	123.70	
5-3/4	146.09	
6	69.99	
6-1/2	48.33	
6-3/4	100.40	
7	101.60	
7-1/2	103.41	
5. Bullion, .992 and over, gold	183,915.38	
6. Retreated, mint fine silver	11,468.77	
7. Bullion, no charges: Gold	36,733.55	
" " silver slimes bars	24,739.90	
" " Silver	533.29	
Total operated upon	473.86	
	327,983.45	
8. Gold bullion used direct through gold cells	49,467.84	
9. " " alloyed with silver for silver cells	121,460.96	
10. Silver bullion	35,521.20	
Total crude (including all bullion without charges)	206,450.00	
11. Cost per ounce total operated upon	.013495	
12. Average ditto	.010511	
13. Cost per crude ounce	.023826	
14. Average ditto	.016968	
15. Average per oz. P&R charges collected	.038410	
16. Total charges collected	\$7,448.38	
17. Cost of operating Refinery	4,426.41	
Profit	\$3,021.97	

INGOT ROOM

1. Amount bullion melted:	Silver	446,951.96	
	Nickel	<u>138,917.30</u>	
2. Amount of good ingots:	Dimes	364,385.60	
	Half Dollars	72,954.20	437,337.80
	Nickels		<u>135,034.50</u>

3. Cost of Ingots	Silver		Nickel		Total
	Amount	Per oz.	Amount	Per oz.	
a. Labor	\$262.41	.000597	\$102.05	.000755	\$364.46
b. W. & R. Gen'l	154.25	.000352	59.99	.000444	214.24
c. Mitts & Gloves	10.77	.000024	5.30	.000039	16.07
d. Crucibles	33.66	.000076	18.36	.000135	52.02
e. Sweeps cellar	40.53	.000092	0.00	.000000	40.53
f. Supplies	12.79	.000029	7.76	.000057	20.55
g. Fuel	65.78	.000150	30.80	.000228	96.58
h. Power	19.54	.000044	7.60	.000056	27.14
i. Steam	2.88	.000006	1.12	.000008	4.00
j. Light	.79	.000001	.31	.000002	1.10
k. Repairs	12.38	.000028	4.82	.000035	17.20
l. Incidentals	0.00	.000000	0.00	.000000	0.00
m. Vacation & H'days	18.97	.000031	5.43	.000040	19.40
n. Alloy copper	224.66	.000513	0.00	.000000	224.66
Totals	<u>\$854.41</u>	<u>.001953</u>	<u>\$243.54</u>	<u>.001803</u>	<u>\$1097.95</u>
4. New equipment	<u>0.00</u>				

5. Percentage of good ingots:	Silver	97.8
	Nickel	97.2

6. Average cost of ingots for fiscal year:	Silver	.002318
	Nickel	.002163
	Bronze	.001882

7. Cost distributed:	Dimes	\$712.01
	H. Dollars	142.40
	Nickels	243.54
	Total	<u>\$1097.95</u>

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

The Melter and Refiner received from the Superintendent during the fiscal year ended June 30th, 1912:-

GOLD ACCOUNT

		Standard ounces
In Bullion		2,388,225.018
Returned prior to settlement	1,642,992.272	
" at	" <u>745,151.374</u>	<u>2,388,143.646</u>
Operative Wastage		81.372

SILVER ACCOUNT

In Bullion		3,589,636.26
Returned prior to settlement	3,107,758.05	
" at	" <u>460,959.97</u>	<u>3,568,718.02</u>
Operative Wastage		918.24

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Refinery operations, covering a period of eight months, were as follows:-

GOLD ACCOUNT

		Standard ounces
Delivered to the Refinery		1,926,534.596
Returned prior to settlement	1,849,959.678	
Returned in bars at "	76,185.045	
" " sweeps at "	120.574	1,926,265.297
Operative Wastage		269.299

SILVER ACCOUNT

Delivered to the Refinery		1,710,630.69
Returned prior to settlement	1,627,651.73	
" in bars at "	80,382.41	
" " sweeps at "	547.82	1,708,581.96
Operative Wastage		2,048.73

The Refinery also returned 573.7 lbs. Copper; 116.15 Troy ozs. Platinum; and 14.95 Troy ozs. Palladium.

The Refinery earnings were as follows:

Charges collected on bullion treated	\$75,809.03
By-products, as above set forth, approximately	5,961.42
Total	\$81,770.45

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

MINOR COINAGE METAL

Received, redelivery settlement metal of June 30, 1911,	1,290,453.49
Copper - - - - -	1,458,333.33
Tin - - - - -	8,939.58
Zinc - - - - -	29,181.25
Nickel - - - - -	441,000.00
Clippings - - - - -	756,732.35
Condemned coins and blanks - - - - -	54,095.40
Total	4,038,735.40
 Delivered, Ingots prior to settlement, Nickel	 1,123,297.60
" " " " Bronze	1,646,596.30
" at settlement Nickel	104,069.00
" " " Bronze	127,808.00
Metal in Settlement	1,018,291.39
Operative Wastage	18,673.11
Total	4,038,735.40

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

The Following Melts were made:

	Gold	Silver	Total
Deposits	3,799	739	4,538
Anodes	283	502	785
Cathodes	27	27	54
Ingots		808	808
Fine Bars	203	196	399
Slimes	154	221	375
Settlement	14	17	31
Sweats			661
Nickel Ingots			356
Bronze			452
Miscellaneous			71
		Total	8,530

Ingot Melts condemned, none; Remelted, none.

Number of employees in the Refinery	15
" " " " " M. & R.'s Department	21

The Sweeps cellar was operated under the supervision of the Superintendent of the Mint.

MELTER AND REFINER'S OPERATIONS.

At Quincy, Alaska, July 1905, 1905
of the United States

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of June, 1905, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

METAL OPERATED UPON.	WEIGHT OF METAL.				RECOVERY.				
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TOPS, BARS, CONDENSED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEETS.	FROM OTHER SOURCES.	APPARENT NET LOSS.	APPARENT TOTAL GAIN.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,						15,280	15,979		31,259.
Gold Bars,									
TOTAL,									
Silver Ingots,	744,445.78	73,189.80	143,627	200.69					744,78
Silver Bars,									
TOTAL,									

I certify the above to be a correct statement.

Approved:

Superintendent.

Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship, June, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	3 das. 1 hr.	100	95
Bartlett, H.D.	3 das.	100	96
Borstadt, G.	2 das. 5 hrs.	98	95
Bush, W.M.	6 das.	100	99
Crary, J.H.	3 das. 4 hrs.	100	95
Dardis, W.N.	3 das.	100	95
Gray, G.B.	3 days	100	97
Hetrick, J.M.	---	100	100
Howbert, D.T.	6 das.	100	90
Lindhard, J.A.	6 das.	100	97
Lundin, A.H.	2 das. 1-1/2 hrs.	100	95
Russell, N.A.	2 das.	100	95
Schell, E.P.	2 das. 2-1/2 hrs.	100	94
Smith, E.S.	2 das. 1/2 hr.	100	94
Spencer, G.N.	3 das.	100	96
St. John, F.	4 hrs.	100	100
Stoddard, K.T.	3 das.	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	2 das. 6-1/2 hrs.	100	95
Whitehead, H.R.	3 das.	100	95
Wirth, B.F.	1 day 6 hrs	100	100
Peterson, O.	---	100	95

1. Amount bullion melted:	Silver	24,526.78					
	Nickel	105,326.70					
	Brass	125,215.00	50,000.00	200,215.00			
2. Amount good ingots:	Half dollars	72,159.80					
	Nickels	104,069.00					
	Brass	127,805.00	50,000.00	200,066.50			
3. Cost of Ingots	Silver		Nickel	Brass	Totals		
	Amount	Cost per oz.	Amount	Cost per oz.	Amount	Cost per oz.	
at 100	192.89	.002685	611.30	.006617	6439.00	.000000	221.49
at 100	130.00	.001776	113.34	.00416	4333.00	.000000	216.67
at 100	835	.000045	937.00	.0090	770.00	.000000	92.42
at 100	6.12	.000084	21.42	.000005	21.42	.000000	45.96
at 100	80.25	.000413	50.27	.00194	00.00	.000000	50.46
at 100	19.37	.000264	7.73	.000074	8.65	.000000	23.70
at 100	7.26	.000099	20.24	.00194	21.12	.000160	45.23
at 100	12.06	.000164	7.03	.000003	4.02	.000031	20.11
at 100	00	.000000	00.00	.000000	00.00	.000000	00
at 100	00	.000000	00.00	.000000	00.00	.000000	00
at 100	12.20	.000180	4.40	.00002	4.40	.000034	22.80
at 100	1.62	.000000	54.00	.00005	54.00	.000004	2.70
at 100	43.00	.000587	14.34	.00137	14.34	.000112	71.68
at 100	16.95	.000251	00.00	.000000	00.00	.000000	16.95
Totals	476.07	.006564	209.92	.002017	189.82	.001480	875.81

4. New Equipment: none.

5. Percentage of good ingots: Silver 98.3; Nickel 98.8; Brass 99.6.

6. Percentage cost of ingots for fiscal year: Silver .002412; Nickel .002149; Brass .001803.

7. Cost distributed:

Silver	476.07
Nickel	209.92
Brass	189.82
Totals	875.81

Product:	Gold	27 461 755	fine ounces.
	Silver	5 5 111 59	" "
	Total	32 976 345	" "

Costs:

a. Labor	1 087 76
b. Crucibles	85 68
c. Acids	12 93
d. Supplies	99 52
e. Mills, &c.	32 514
f. Chemicals	5 00
g. Superheated	159 60
h. M. & R. Fuel	433 34
i. Fuel	23 95
j. Steam	73 16
k. Power	27 79
l. Repairs	116 04
m. Light	8 61
n. Incidentals	2 15
o. Assays	
p. T. & H. d. y. s.	165 77
q. & H. d. d. m. Exp.	218 62
	<u>2 613 97</u>
	<u>70 68</u>

2. new Equipment
 4. to 11 inc. and 12, 15 & 16 nothing, no refining, operation only on these ref.
 10. Average cost for entire total operated ref. 018138
 14. Average cost per ounce refined for fiscal year 016594
 17. Cost of operating refining in form 9. 2. 13. 27

MINT OF THE UNITED STATES AT DENVER.
MELTER AND REFINERS DEPARTMENT.

AUGUST 1, 1912.

RECEIVED

Received of Frank W. Bowser, Superintendent of the Mint of the United States at Denver, the following Metal (Minor Coinage) in Ready Stock after Settlement:

Nickel and Copper
Bronze -- Copper, Tin, and Zinc
Total

Standard ounces
999,877.33
10,414.06
1,010,291.39

John Wilson
Melter and Refiner.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence Account, July, 1912.

	Time Lost
Arnold, R.G.	24 das.
Bartlett, H.D.	24 "
Borstadt, G.	24 "
Bush, W.M.	24 "
Crary, J.H.	24 "
Dardis, W.N.	24 "
Gray, G.B.	24 "
Hetrich, J.M.	24 "
Howbert, D.T.	24 "
Lindhard, J.A.	23 "
Lundin, A.H.	23 "
Russell, N.A.	23 "
Schell, E.P.	19 " 2 hrs.
Smith, E.S.	23 das.
Spencer, G.N.	23 "
St. John, F.	20 "
Stoddard, X.T.	24 "
Taggart, B.H.	23 "
Whitaker, S.R.	24 "
Whitehead, H.R.	24 "
Wirth, B.P.	18 " 4 hrs.

MELTER AND REFINER'S OPERATIONS.

The following statement shows in standard ounces the total amount of bullion in the different forms delivered to the Melters of this Department during the month of July, 1912, and the amount of metal returned in ingots, bars, etc., and recovered with the apparent losses and gains:

At San Francisco, California, August 5th, 1912
Mint of the United States

METAL OPERATED UPON.	WEIGHT OF METAL.			RECOVERY.			
	DELIVERED TO THE MELTERS.	RETURNED BY MELTERS IN INGOTS, BARS.	RETURNED IN TONS, BARS, CONDEMNED.	APPARENT GAIN.	APPARENT LOSS.	FROM SWEEPS.	FROM OTHER SOURCES.
	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.	Stand. ozs.
Gold Ingots,							
Gold Bars,							
TOTAL,							
Silver Ingots,							
Silver Bars,							
TOTAL,							

Ingots from dist. not operated in July, 1912.

I certify the above to be a correct statement.

Approved:

Superintendent.

S. Williamson

Melter and Refiner.

To the DIRECTOR OF THE MINT, Washington.

M. & R.'s Cost Report, July, 1912

1. Refinery and Ingot room closed down during entire month.

2. Refinery: Labor	\$54.10
M. & R. General	191.17
Vacation & Holidays	1,959.72
Repairs	70.77
	<hr/>
	\$2,275.76

New Equipment

\$315.40

2591.16

3. Ingot: Labor	\$3.50
M. & R. General	95.59
Vacation & Holidays	438.40
Repairs	45.34
	<hr/>
	\$589.83

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Minor Coinage Operations from August 1 to 24, 1912.

Received from Superintendent:

Settlement bullion

Total

Clippings received

Zinc

Tin

Total received

Nickel

999,877.33

Bronze

18,414.06

1,018,291.39

119,424.10

29,312.50

15,225.00

1,182,252.99

Nickel Ingots del'd to Superintendent 352,027.90

Bronze " " " 491,053.50

843,081.40

Metal on hand: Nickel Ingots

Bronze "

Tops, etc.

Metal

32,019.10

110,599.30

15,660.80

173,701.19

331,980.39

Wastage

7,191.20

1,182,252.99

J. H. Ketchick
Acting Melter and Refiner.

*Work
see p 289*

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

September 4, 1912.

RECEIVED of Frank M. Downer, Superintendent of the United States Mint at Denver, 1,065,874.112 standard ounces of gold, and 444,097.84 standard ounces of silver, as follows:

	Gold Std. Ozs.	Silver Std. Ozs.
Redelivery after Settlement	745,028.258	314,207.80 -
Deposits, June 21 to 30, 1912	7,597.874	5,267.78 -
Re-Deposits " " "	9,083.990	4,026.44 -
Coiner's Settlement	25.817	9,628.64 -
Proof Gold	53.750	
July Deposits	110,035.717	34,643.29
July Re-Deposits	64,384.401	22,212.90
August Deposits	92,155.938	37,064.06
August Re-Deposits	37,508.367	17,056.93
Total	1,065,874.112	444,097.84

J. A. Hestrich
Acting Supt. Melting & Refining Dept.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

September 7, 1912.

Redelivery, Aug. 1, 1912, Alloy Copper	119,729.15 119,736.02	Troy ozs.
Delivery, Sept. 7, 1912, 20,028 Avoir. Lbs.	292,075.00	" "
Total	411,804.15 411,811.02	" "

J. A. Hestrich
Acting Supt. Melting & Refining Dept.

J. H. L.

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship, August, 1912:

	Time Lost	Conduct	Workmanship
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Dardis, W.N.	2 hrs.	100	95
Gray, G.E.	1-1/2 hrs.	100	97
Hetrich, J.M.	---		
Howbert, D.T.	---	100	90
Lindhard, J.A.	---	100	97
Lundin, A.F.	---	100	95
Schell, E.P.	1-1/2 hrs.	100	95
Smith, E.S.	---	100	95
Spencer, G.N.	1 day	100	96
Stoddard, X.T.	---	100	98
St. John, F.	1 hr.	100	100
Taggart, B.H.	---	100	95
Whitaker, S.R.	---	100	95
Whitehead, H.R.	---	100	95
Wirth, B.P.	---	100	100

M. & R. Dept. Supplies, July 1, 1912

311 #80 Crucibles	@ \$3.06	\$951.66
16 #40 "	1.73	27.68
2 #50 "	2.16	4.32
3 #30 "	1.30	3.90
91 - 4 inch rings	.912	82.99
182 2 " "	.445	80.99
164 #80 & #100 covers	.745	122.18
139 #5 dipping cups	.32	44.48
144 #4 " "	.40	57.60
90 pedestals	.30	27.00
414 quarter slides (S 20)	.12	49.68
19 burner tile	.20	3.80
186 gold stirrers	.96	178.56
26 miscellaneous stirrers	.28	7.28
22 #1A hood tile	.40	8.80
22 41B " "	.50	11.00
24 41 C " "	.50	12.00
Arch tile		87.65
1600 lbs. sulphate of iron	.0185	29.60
2200 " fire clay	4.50 per ton	4.95
1400 " salt	10.10 " "	7.07
Carpet and asbestos mitts		201.54
Leather belting and belt lace		9.30
45 yds. sheeting	.25	11.25
97 aprons	2.85 per doz.	23.04
112 prs. sleeves	2.70 " "	25.20
39 " white rubber gloves	1.25	48.75
10 " " " "	1.25	12.50
111 " buck gloves	.7164	79.52
Charcoal, 589 lbs.	.03	17.67
1039 lbs. bone ash	.033	34.29
480 " nitre	.069	33.12
700 " borax glass	.099	69.30
200 " bone ash	.033	6.60
Fire brick		36.44
1517 lbs. hydrochloric acid	1.50 per 100#	22.75
1807 " nitric acid	9.25 " "	167.14
210 " sulphuric acid	1.25 " "	2.62
2000 " slab zinc	.061	162.56
2383		
Total		\$2,749.58

Aug/12

REFINERY

Refinery closed down during entire month.

Labor	\$434.49
M. & R. Gen'l	131.32
Vacation & holidays	8.50
Supplies	62.53
Incidentals	.97
Repairs	231.54
Total	<u>\$669.35</u>
New Equipment	\$425.40

INGOT ROOM

1. Amt. Bullion melted:	Nickel	389,871.80	
	Bronze	738,932.90	1,128,804.70
2. Amt. Good Ingots:	Nickel	384,051.00	
	Bronze	731,745.70	1,115,796.70

3. Cost of Ingots	Nickel		Bronze		Total
	Amount	Per oz.	Amount	Per oz.	
a. Labor	\$516.26	.001344	\$892.16	.001219	\$1,408.42
b. M. & R. Gen'l	178.60	.000465	346.69	.000473	525.29
c. Mitts & Gloves	17.60	.000045	34.16	.000046	51.76
d. Crucibles	78.50	.000204	152.40	.000208	230.90
e. Sweeps cellar	0.00	.000000	0.00	.000000	0.00
f. Supplies	38.04	.000099	73.85	.000100	111.89
g. Fuel	164.51	.000428	319.33	.000436	483.84
h. Power	10.35	.000026	20.09	.000027	30.44
i. Steam	29.10	.000075	56.50	.000077	85.60
j. Light	1.96	.000004	3.62	.000004	5.48
k. Repairs	16.63	.000043	32.28	.000044	48.91
l. Incidentals	6.70	.000017	13.01	.000017	19.71
m. Vacation & H'days	1.10	.000002	2.14	.000002	3.24
n. 1/11 shut-down exp.	18.23	.000047	35.39	.000048	53.62
Totals	\$1077.48	.002805	\$1981.62	.002708	\$3059.10

4. New Equipment - None

5. Percentage of good ingots: Nickel, 98.5; Bronze, 99.0

6. Average cost of ingots for fiscal year: Nickel, .002805
Bronze, .002708

7. Cost distributed:	Nickel	\$1077.48
	Bronze	1981.62
	Total	<u>\$3059.10</u>

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Minor Coinage Operations from July 1 to August 23, 1912:

Received from Superintendent:

Settlement Bullion, Nickel	999,877.33	
Bronze	<u>18,414.06</u>	1,018,291.39
Clippings		113,021.90
Total received		<u>1,131,313.29</u>

Nickel Ingots del'd to Supt.	352,027.90	
Bronze " " " "	<u>443,344.30</u>	795,372.20

Metal on hand: Nickel ingots	<u>1,742,519.70</u>	
Bronze "	<u>142,602.10</u>	163,121.80

		165,628.09
--	--	------------

Wastage		7,191.20
		<u>1,131,313.29</u>

John L. Loomis
Acting Melter and Refiner

OF THE UNITED STATES AT

Denver

over Bullion and Minor Coinage Metal Balances in the Meltor and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the period July 1 to Aug 23, 1912

No gold.

STANDARD OUNCES		Dec.	STANDARD OUNCES		Dec.	Minor Coinage		Dec.	NICKEL and BRASS		Dec.	TRAY OUNCES		Dec.	Delivered		Dec.
Delivered			Ingot			Bar, Fine			Bar, Standard			Bar, Unpacked			Bar		
Sweep			Total			Total			Total			Total			Total		
795 372 20			1018 291 39			113 024 90			113 313 29			113 313 29			113 313 29		
Balance			Balance			Balance			Balance			Balance			Balance		
* Settlement			* Settlement			* Settlement			* Settlement			* Settlement			* Settlement		
335 94 09			335 94 09			335 94 09			335 94 09			335 94 09			335 94 09		

clipping

* Nickel Ingot
Brass

20 519 70

Sept 21

J. M. Watson

Mint

Mint

Major O'Connell

Received Aug 24
Statement

335 94

221 97

Clipping

Bin
Bin

36 648.50

15 225.00
29 312.50

*

417 127 09

195 154 89
417 127 09

SILVER

BRONZE

* Nickel Light
Bry.

none
98 440 00

Apr 26 1911
J. H. Kebrick
J. H. Kebrick

Superintendent

MELTER AND REFINER'S BALANCES.

Gold and Silver Bullion and Minor Coinage Metal Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of Sept, 1912

Mint OF THE UNITED STATES AT Denver

GOLD.

STANDARD OUNCES Dec

STANDARD OUNCES Dec

TRAY OUNCES Dec

Dec

TRAY OUNCES Dec

Dec

Delivered

Ingot

Bar, Fine

Bar, Standard

Bar, Unpurified

Bar

Sweep

66278
7186

Balance Sept 30

Total

1249 818 709
1249 818 709

Received

Balance

Sept

Sept

Nickel Clipping

Brass

195 154 89
145 333 33
29 910 42
28 623 90
120 814 10

Delivered

Ingot

Nickel

Brass

103 297 90
597 241 90

Balance Sept 30

Total

1131 996 84
1832 836 64

SILVER

Dec

STANDARD OUNCES Dec

Dec

TRAY OUNCES Dec

Dec

TRAY OUNCES Dec

Dec

Delivered

Ingot

Bar, Fine

Bar, Standard

Bar, Unpurified

Bar

Sweep

615 133 25

Received

Balance

Sept

Sept

Nickel

Brass

Sept

Sept

Nickel

Brass

Sept

Sept

Nickel

Brass

Sept

Sept

Nickel

Brass

Sept

Sept

1077916 52

Sept 30

462 788 27

1077916 52

Oct 7

Greenleaf

Sept/12

INGOT ROOM

1. Amount bullion melted:	Silver	638,392.70		
	Nickel	150,145.90		
	Bronze	506,261.00	1,294,799.60	
2. Amount of good ingots:	Half Dols.	615,134.00		
	Nickels	138,163.70		
	Bronze	498,797.30	1,252,095.00	
3. Cost of Ingots	Silver	Nickel	Bronze	Totals
a. Labor	\$359.61	\$148.40	\$402.40	\$910.41
b. M. & R. Gen'l	93.78	38.70	104.93	237.41
c. Mitts, gloves	3.40	1.40	3.80	8.60
d. Crucibles	32.63	13.47	36.52	82.62
e. Sweeps cellar	0.00	0.00	0.00	0.00
f. Supplies	48.53	20.03	54.30	122.86
g. Fuel	82.07	33.87	91.83	207.77
h. Power	10.75	4.43	12.02	27.20
i. Steam	26.95	11.12	30.16	68.23
j. Light	2.16	.89	2.42	5.47
k. Repairs	14.41	5.95	16.13	36.49
l. V. & H'days	140.13	57.82	156.80	354.75
m. Alloy copper	572.22			572.22
n. 1/11 shut-down	21.18	8.74	23.71	53.63
Totals	\$1,407.82	\$344.82	\$935.02	\$2,687.66
Cost per oz.	.002288	.002495	.001874	
4. New Equipment				\$2.25
5. Percentages of good ingots:	Silver 96.3;	Nickel 92;	Bronze 98.5	
6. Average cost of ingots for fiscal year:	Silver .002288			
	Nickel .002723			
	Bronze .002426			
7. Cost distributed:	Silver \$1,407.82			
	Nickel 344.82			
	Bronze 935.02			
	Total \$2,687.66			

REFINERY

Refinery closed down during month.

Costs:	1. Labor	\$146.32
	2. Crucibles	82.62
	3. M. & R. Gen'l	118.71
	4. Mitts, gloves, aprons	70.20
	5. Vacation, holidays	158.91
	6. Supplies	108.59
	7. Repairs	99.27
	Total	\$784.62
New Equipment		\$481.65

126627
 14632
 111995
 11871

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship, September, 1912: *June*

	Time Lost	Conduct	Workmanship
Bartlett	---	100	96
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Dardis, W.N.	2 hrs.	100	95
Gray, G.E.	---	100	97
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	90
Lindhard, J.A.	---	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	2 das. 2-1/2 hrs	100	95
Schell, E.P.	1 hr.	100	95
Smith, E.S.	---	100	95
Spencer, G.N.	---	100	95
St. John, F.	---	100	96
Stoddard, X.T.	2-1/2 hrs	100	100
Taggart, B.H.	---	100	98
Whitaker, S.R.	---	100	95
Whitehead, H.R.	4 hrs	100	95
Wirth, B.P.	6-1/2 hrs	100	95
	---	100	100

Gold and Silver Bullion and Minor Coinage Metal Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the ^{U. S. M. & R. D. Philadelphia} by him during the ^{year ending} ~~year ending~~ 191

GOLD.
STANDARD OUNCES
Dec
NICKEL.
TROY OUNCES
Dec

[illegible][illegible]

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, October, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	5 das. sick	(balance of month with Coiner)	
Bartlett, H.D.	1/2 hr. lv.	100	98
Borstadt, G.	2 hrs. "	100	95
Bush, W.M.	1 hr. without pay	100	99
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	2 hrs. lv.	100	97
Hetrich, J.M.	1 day, 4 hrs. lv.	100	100
Howbert, D.T.	1 hr. without pay	100	90
Lindhara, J.A.	1 hr. lv.	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	---	100	95
Scheil, E.P.	3 hrs. lv.	100	95
Smith, E.S.	2 hrs. "	100	95
Spencer, G.W.	4 hrs. "	100	96
St. John, F.	3-1/2 hrs. "	100	100
Stoddard, X.T.	4 hrs. "	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	2 hrs. lv.	100	95
Whitehead, H.R.	---	100	95
Wirth, E.P.	---	100	100

REFINERY

1. Bullion sent to Refinery:		
a. Bullion, with charges, crude	388,321.77	
b. " without charges	179,927.86	
c. " .992 and over, Gold	53,564.42	
d. " " " Silver	199.60	622,013.65
e. Retreated, Ref'y bars	8,264.80	
f. " Mint fine bars	22,946.00	31,210.80
Gross Wt.		653,224.45

2. Production of fine bullion:	Gold	163,097.110 fine ozs.
	Silver	57,358.80 " "

3. Cost of operations:

a. Labor	\$1,764.42
b. Leave & Holidays	28.41
c. M. & R. Gen'l	430.81
d. Crucibles	197.40
e. Gloves, mitts, etc.	43.50
f. Chemicals	0.00
g. Acids	689.70
h. Fuel Oil	306.86
i. Supplies	258.65
j. Sweeps cellar	0.00
k. Repairs--material	24.17

Superintendent's dept.:

l. Repairs--labor	80.44
m. Steam plant	139.84
n. Electric power	210.82
o. Light	12.39
p. Assay charges	227.38
q. Incidentals	0.00
r. 1/2 shut-down expense	414.45
Total	\$4,825.24

New Equipment

\$6.25

4. Cost per crude ounce for month	.012425
5. Average cost per crude ounce for fiscal year	same
6. Cost per ounce total operated upon, for month	.007386
7. Average cost per ounce total operated upon, fiscal year	same
8. Gross wt. of bullion upon which charges were made	388,321.77
9. Cost of operating the Refinery	\$4,825.24
10. Parting & Refining charges	12,941.21
11. Profits	8,115.97
12. Average parting & refining charges per ounce collected,	.033325

INGOT MELTING

1. Amount bullion melted -- all nickel,	386,988.80
2. Amount good ingots	384,784.80
3. Cost of ingots	Amount
a. Labor	\$326.21
b. M. & R. Gen'l	215.40
c. Mitts, gloves	0.00
d. Crucibles	61.80
e. Sweeps cellar	0.00
f. Supplies	31.32
g. Fuel	176.90
h. Power	22.68
i. Steam	34.96
j. Light	1.00
k. Repairs	21.80
l. Vac. & Holidays	4.37
m. Alloy copper	0.00
n. 1/11 shut-down exp.	53.62
Total	\$950.16
4. New Equipment	\$190.84
5. Percentage good ingots	99.4
6. Av. cost ingots fiscal year:	
Silver	.002288
Nickel	.002615
Bronze	.002370
7. Cost distributed:	
All nickel	

Gold Anode Melts sent to Refinery, U. S. Mint, Denver, 1917

No.	Gross Wt.	Make-up	Fineness	Gold, Fine Ozs.	Silver, Fine O.
1	6573.59	921.7	051.8	6052.523	340.43
2	6385.07	912.9	047.3	5829.197	331.65
3	7940.20	994.9		7899.731	
4	7057.15	994.9		7020.819	
5	7050.86	911.2	050.9	6424.925	559.30
6	6197.14	921.5	050.9	5711.039	371.79
7	6569.92	908.8	059.	5970.477	387.33
8	6915.26	907.	059.4	6273.297	410.53
9	7024.09	913.3	068.3	6415.378	480.19
10	6840.76	926.9	058.9	6340.301	399.01
11	7004.45	905.4	059.7	6342.051	418.35
12	6515.03	923.6	048.3	6016.599	314.46
13	6257.44	918.4	041.	5747.013	256.73
14	6420.63	994.7		6386.531	
15	6360.85	994.4		6325.636	
16	7637.70	994.7		7597.429	
17	7042.14	994.9		7006.416	
18	6723.78	929.3	046.6	6243.417	313.80
19	6518.67	913.6	054.1	5935.310	352.63
20	7168.06	914.9	059.3	6557.960	425.25
21	7699.25	920.5	052.5	7036.920	430.46
22	6589.04	918.2	047.4	6050.216	312.39
23	6875.72	914.6	047.9	6282.573	390.44
24	6804.63	914.9	070.9	6225.156	483.19
25	7563.96	917.3	044.4	6943.268	536.64

Silver Anodes

1	5484.75	397.7	501.3	2160.976	2749.64
2	5517.14	396.5	491.1	2187.453	2709.80
3	5219.72	395.8	496.	2054.610	2589.14
4	5331.53	406.7	554.3	2168.144	2955.42
5	5486.94	396.1	557.7	2173.361	3039.32
6	5176.83	400.7	524-	2074.680	2712.42
7	5323.75	400.5	518.4	2132.096	2759.96
8	5664.05	400.9	545.3	2270.700	3029.53
9	5422.54	399.4	551.6	2185.947	2931.07
10	5500.23	406.7	500.7	2237.250	2754.00
11	5435.54	401.5	503.3	2182.401	2735.22
12	5514.72	402.	533.6	2217.019	2942.04
13	5251.95	403.9	521.3	2121.233	2737.39
14	4984.64	405.6	554.3	2021.899	2763.39
15	5530.12	396.5	503-	2192.891	2723.11
16	5157.17	398.4	514.9	2054.778	2666.38
17	5292.93	396.1	552.6	2066.237	2925.56
18	5682.87	394-	519-	2181.846	2949.95
19	5682.49	398.9	513.8	2267.089	2919.45
20	5171.83	399.2	513.8	2064.650	2656.57
21	5514.13	403.9	539.5	2226.995	2975.06
22	5274.12	394.7	549.4	2081.642	2897.51
23	5406.42	392.6	537.2	2122.544	2904.45
24	5666.52	393.5	557.3	2239.731	3156.22
25	5676.76	406.5	497.3	2308.041	2822.33
26	5584.35	392.5	509.7	2138.389	2846.13
27	5704.50	395.4	527.6	2255.643	3010.03
28	5643.50	397.7	535.9	2244.561	3024.23
29	5469.69	407.7	480.9	2230.135	2830.39
30	5590.62	409.6	503.2	2290.127	2912.55
31	5457.62	397.5	509.4	2169.254	2760.33
32	5161.95	399.5	503.6	2062.512	2598.97
33	5735.02	404.7	513.5	2301.127	3041.13
34	5583.73	406.7	538.2	2221.011	2904.19
35	5303.26	390.1	527.6	2063.191	2790.11

MELTER AND REFINER'S BALANCES

Whit

OF THE UNITED STATES AT

Supp's. M. & R. Dept's

Denver

Sup^{ts} M. & R. Dem^s
or Coinage Metal Balances in the ~~Melter~~ and Refiner's hands and Receipts from and Deliveries to the Superintendent
of the Mint by him during the month of November, 1912

STAMP AND CHECK	Dec
Mar. 1, 1912	1330
	331
	379
	74
	690
	309
	4316
	523
Receivable	69099
	277
10057	
16973	

Good copy. Dan
ditto "

Ref'd 163.100.826
Unref'd 1167.230.553

DATE	TIME	WAVELENGTH	WAVELENGTH	WAVELENGTH
Nov. 30	†	1478	524	318
		1478	524	318
		313	752	257
		1164	772	031

†
Rafia
Unafia

Received			
Balance	Nov. 1	1127	063 78
Wicks Clothing		79	455 70
Buings	"	8	871 50

Mme. Duvigne

ZION & Co

Delivered
Angola
~~Boats~~
Michael
147 632 00
33 426 20

Balance	Nov. 30	* 1034 432 62
Total		1215 490 78

7. Mornings on Land

Mar. 1 7 505 944 27

Ne de fruits

Gold Exch. and
Silver " "

DATE	DESCRIPTION	AMOUNT
Nov 30		482923 44
708 527 80		708 527 80

Nov 30

46 cab 18

the

Journal

* Ref'd	44. 226. 92
line C.	19. 744. 45
unref'd	44. 226. 90

UNITED STATES AT DENVER,

DEPARTMENT,

Absence, Conduct, and Workmanship Account, November, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.C.	---	100	95
Barlett, H.E.	3 hrs. leave	100	96
Bernard, G.	---	100	95
Beth, W.E.	---	100	99
Crang, F.H.	4 hrs. lv.	100	95
Davis, W.N.	4 " "	100	95
Cray, G.D.	4 " "	100	97
McNair, J.M.	---	100	100
Howbert, D.T.	4 hrs. without pay	100	95
Lindhard, J.A.	---	100	97
Lundin, A.H.	1 day leave	100	95
Russell, N.A.	---	100	95
Schell, E.P.	3 hrs. leave	100	95
Smith, E.S.	---	100	95
Spencer, G.N.	---	100	96
St. John, F.	1 day 5-1/2 hrs. lv.	100	100
Stoddard, K.T.	---	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	1 hr. leave	100	95
Whitehead, H.R.	---	100	95
Wirth, E.P.	---	100	100

REFINERY

1. Bullion sent to the Refinery:			
a. Bullion with charges -- Crude		183,098.14	
b. Bullion without charges		1,493.78	
c. Bullion, .992 & over, Gold		28,756.21	
d. " " " " Silver		0.00	
e. Retreated, Refinery bullion		136,517.11	Gross Wt.
f. " Mint fine bars		15,303.45	365,168.62
<hr/>			
2. Production of fine bullion: Gold		150,732.87	
Silver		72,361.85	223,094.72
<hr/>			
3. Cost of operations:			
a. Labor	\$1,670.71		
b. Leave, vacation & H'days	157.33		
c. M. & R. Gen'l	385.34		
d. Crucibles	61.20		
e. Gloves, mitts, &c	106.00		
f. Chemicals	0.00		
g. Acids	782.03		
h. Fuel oil	100.84		
i. Supplies	191.22		
j. Sweeps cellar	0.00		
k. Repairs -- material	32.21		
l. " labor	131.33		
m. Steam plant	159.16		
n. Electric power	181.46		
o. Light	12.00		
p. Assay charges	262.65		
q. Incidentals	0.00		
r. 1/9 shut-down expense	414.41		
Total	<u>\$4,647.89</u>		
New Equipment	0.00		
<hr/>			
4. Cost per crude oz. for month		.025384	
5. Average cost per crude oz. for fiscal year		.016578	
6. Cost per oz. total operated upon for month		.012728	
7. Average cost per oz. total operated upon for fiscal year		.009302	
<hr/>			
8 Gross wt. bullion upon which charges were collected		183,098.14	
<hr/>			
9. Cost of operating Refinery	\$4,647.89		
10. Parting & Refining charges	6,372.63		
11. Profit	<u>\$1,724.74</u>		
<hr/>			
12. Average P. & R. Charges collected, per ounce		.034804	

INGOT

1. Bullion melted: Silver 284,210.95
 Nickel 103,180.40
 Bronze 34,026.20

2. Amount of good ingots: Half Dollars 275,228.05
 Nickel 101,918.30
 Bronze 33,427.30

3. Cost of Ingots	Silver	Nickel	Bronze	Total
a. Labor	\$167.67	\$83.97	\$23.68	\$275.32
b. M. & R. Gen'l	117.34	58.76	16.57	192.67
c. Mitts & gloves	0.00	0.00	0.00	0.00
d. Crucibles	50.32	25.20	7.10	82.62
e. Sweeps cellar	0.00	0.00	0.00	0.00
f. Supplies	19.78	9.90	2.79	32.47
g. Fuel oil	30.90	15.48	4.36	50.74
h. Power	10.29	5.15	1.46	16.90
i. Steam	16.16	8.09	2.28	26.53
j. Light	1.64	.82	.23	2.69
k. Repairs	18.43	9.23	2.60	30.26
l. Vacation, H'days	36.09	18.07	5.10	59.26
m. Alloy copper	86.76			86.76
n. 1/11 shut-down	32.65	16.36	4.61	53.62
Totals	\$588.03	\$251.03	\$70.78	\$909.84

4. New Equipment 0.00

5. Percentage good ingots: Silver, 96.8 Nickel, 98.7 Bronze, 98.2

6. Average cost of ingots, fiscal year: Silver .002241
 Nickel .002600
 Bronze .002363

7. Cost distributed: Silver \$588.03
 Nickel 251.03
 Bronze 70.78
 \$909.84

Gold Anode Melts sent to Refinery, U. S. Mint, Denver, November, 1912.

No.	Gross Wt.	Make-up	Fineness	Gold, Fine Ozs.	Silver, Fine Ozs.
26	7469.49	914.8	053.7	6833.342	401.35
27	6757.11	931.6	043.1	6294.899	290.99
28	7206.82	994.6		7168.103	
29	7220.72	917.2	060.8	6622.962	439.51
30	6779.31	914.5	063.8	6199.825	432.86
31	7623.03	935.1	028.9	7128.530	220.03
32	5134.67	994.7		5107.668	
33	3187.51	994.6		3170.314	
34	5405.33	994.7		5376.898	

Silver Anodes

77	5411.68	390.8	556.5	2114.704	3011.47
78	5574.73	406.1	557-	2263.776	3104.83
79	5571.11	397.8	548.1	2216.245	3053.34
80	5581.06	396.3	527.6	2211.898	2944.72
81	5575.02	407.5	536.6	2271.896	2991.83
82	5662.61	408.6	528.8	2313.916	2994.34
83	5674.35	406.9	540.3	2308.590	3065.95
84	5511.50	40-	554.4	2226.360	3055.76
85	5248.30	409.7	540.	2146.918	2834.29
86	5547.31	396.5	576.7	2199.464	3199.44
87	5672.36	401.8	548.8	2279.305	3112.92
88	5580.73	397.9	528.2	2220.736	2947.95
89	5614.29	407.3	496.3	2286.954	2787.46
90	5666.06	394.4	536.1	2235.121	3037.49
91	5342.14	397.4	505.5	2122.917	2700.72
92	5126.63	402.3	500.5	2062.641	2566.12
93	5624.27	389.4	547.1	2190.209	3077.17
94	5501.00	408.6	526.5	2247.800	2896.67
95	5250.14	408.3	567.	2144.021	2976.87
96	5489.52	398.6	578.1	2188.013	3173.67
97	5672.25	398.3	557-	2259.412	3159.38
98	5555.73	400.	554-	2222.648	3077.46
99	5685.98	391.5	512.3	2225.939	2913.26
100	5710.47	391.4	544-	2234.955	3106.09
101	5509.73	390.5	529.3	2151.370	2916.49
102	5594.45	405-	504.5	2265.478	2822.46
103	5514.14	382.6	528.5	2109.890	2914.29
104	5512.90	403-	517.2	2221.604	2851.26
105	5232.91	403.5	529.4	2111.453	2770.40
106	5378.61	377.9	541.5	2032.873	2912.39
107	5521.90	396.2	483.3	2188.018	2668.60
108	5157.73	385.4	486.	1987.966	2506.71
109	5495.66	393.3	507.	2161.879	2786.37
110	5070.06	393.2	483.6	1993.602	2452.07
111	5381.78	395-	496.2	2125.529	2670.65
112	5078.66	394.5	501.7	2003.881	2547.93
113	5357.23	410.1	518.2	2207.335	2776.47
114	5498.76	381.3	506.3	2096.466	2783.89

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Mint by him during the month of December, 1913

Mint

OF THE UNITED STATES AT

Denver, Colo.

GOLD.

STANDARD OUNCES

Dec.

STANDARD OUNCES

Dec.

TRADE OUNCES

Dec.

TRADE OUNCES

Dec.

Delivered

Received

Delivered

TRADE OUNCES

Dec.

Ingots

Balance

Ingots

TRADE OUNCES

Dec.

Bars, Fine

Balance

Bars

TRADE OUNCES

Dec.

Bars, Standard

Balance

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TRADE OUNCES

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Bars, Cuprated

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Minor Coinage

NICKEL and BRASS

TRADE OUNCES

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TRADE OUNCES

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, December, 1912.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95
Bartlett, H.D.	8 hrs.	100	96
Borstadt, G.	---	100	95
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	1-1/2 hrs.	100	97
Hetrick, J.M.	---	100	100
Howbert, D.T.	---	100	95
Lindhard, J.A.	---	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	---	100	95
Schell, E.P.	4-1/2 hrs.	100	95
Smith, E.S.	1 da. 8 hrs.	100	95
Spencer, G.N.	1-1/2 hrs.	100	96
St. John, F.	1 da. 4 hrs.	100	100
Stodard, X.T.	1 da. 8 hrs.	100	98
Tagert, B.H.	1 da.	100	95
Whitaker, S.R.	7 hrs.	100	95
Whitehead, H.R.	2-1/2 hrs.	100	95
With, B.P.	---	100	100

Dec/12

REFINERY

1. Bullion sent to the Refinery:		
a. Bullion with charges--crude	234,093.66	
b. " without charges	1,312.07	
c. " .992 & over -- gold	10,531.46	
d. " " " silver	0.00	
e. Retreated--Refinery bullion	39,328.05	
f. " Mint finebars	16,688.00	
		Gross wt.
		351,953.24
2. Production of fine bullion:		
Gold	139,598.15	
Silver	119,826.40	259,424.55
3. Cost of operations:		
a. Labor	\$1,797.10	
b. Leave & holidays	81.47	
c. M. & R. Gen'l	418.75	
d. Crucibles	67.32	
e. Gloves, mitts, etc.	72.42	
f. Chemicals	4.60	
g. Acids	239.76	
h. Fuel oil	164.76	
i. Supplies	188.70	
j. Sweeps cellar	0.00	
k. Repairs -- material	12.71	
l. " labor	137.81	
m. Steam plant	163.73	
n. Electric power	250.13	
o. Light	15.00	
p. Assay charges	258.48	
q. Incidentals	0.00	
r. 1/2 shut-down expense	414.41	
Total	<u>\$4,287.15</u>	
New Equipment	\$32.75	
4. Cost per crude ounce for month	.018313	
5. Av. Cost per crude oz. for fiscal year	.017082	
6. Cost per crude oz. total operated upon		
for month	.012181	
7. Av. cost, ditto, for fiscal year	.010041	
8. Gross wt. of bullion upon which charges were collected,	234,093.66	
9. Cost of operating Refinery	\$4,287.15	
10. Parting and Refining charges collected	\$8,021.60	
11. Profit	\$3,734.45	
12. Average P. & R. charges collected, per ounce,	.034266	

Dec/12

Ingot Room

1. Amt. bullion melted:	Silver	275,480.40		
	Nickel	113,123.50		
2. Amt. good ingots:	Half dollars	268,016.35		
	Nickels	111,808.40		
3. Cost of Ingots:				
	Silver	Nickel	Total	
a. Labor	\$192.27	\$90.48	\$282.75	
b. M. & R. Gen'l	142.38	67.00	209.38	
c. Mitts & gloves	13.75	6.47	20.22	
d. Crucibles	0.00	0.00	0.00	
e. Sweeps cellar	0.00	0.00	0.00	
f. Supplies	27.51	12.95	40.46	
g. Fuel oil	50.97	23.99	74.96	
h. Power	12.82	6.04	18.86	
i. Steam	18.56	8.73	27.29	
j. Light	.97	.45	1.42	
k. Repairs	21.16	9.96	31.12	
l. Leave & holidays	14.67	6.91	21.58	
m. Alloy copper	78.65		78.65	
n. 1/11 shut-down	36.46	17.16	53.62	
Totals	\$610.17	\$250.14	\$860.31	
4. New Equipment				
5. Percentage of good ingots:	Silver, 97.2	Nickel, 98.8		
6. Average cost of ingots for fiscal year:	Silver	.002249		
	Nickel	.002564		
	Bronze	.002363		
7. Cost distributed:	Silver	\$610.17		
	Nickel	<u>250.14</u>		
	Total	\$860.31		

111	408.6	467.7	2089.687	2493.01
112	396.3	493.6	2033.199	2631.89
113	405.5	514.1	2084.865	2643.07
114	409.8	476.2	2246.758	2612.95
115	305.7	371.6	734.924	1374.68
116	306.6	562.8	1461.564	2690.94
117	309.	558.4	1446.689	2614.11
118	311.4	555.6	1451.395	2589.64
119	308.5	562.4	1495.980	2727.59
120	407.3	481.1	2201.479	2600.76
121	411.	484.3	2231.410	2683.63
122	406.8	503.1	2220.578	2746.11
123	406.7	502.5	2018.402	2493.89
124	401.5	499.7	2021.365	2515.50
125	402.5	501.5	2123.897	2646.63
126	400.6	490.4	2090.042	2558.60
127	392-	526.7	2132.358	2851.83
128	395.4	512	2168.931	2808.62
129	403.6	550.7	2117.090	2790.44
130	567.8	494.5	2159.123	2686.18
131	390-	807.1	2103.180	2734.89
132	383.5	525.3	2147.918	2942.63
133	386-	517.3	2007.941	2691.73
134	394.2	487.1	2143.514	2648.21
135	394.9	513.4	2166.417	2816.80
136	407.1	512.5	2097.250	2642.23
137	393.3	486.6	2242.352	2739.68
138	398.	526.	2153.195	2892.02
139	407-	504.4	2215.098	2745.67
140	400.3	489.6	2017.364	2467.09
141	392.7	486.7	2181.555	2704.13
142	384.6	505.5	2026.224	2898.24
143	381.3	518.4	2004.283	2724.94
144	374.8	535.2	2075.750	2963.74
145	404.6	510.	2104.400	2653.06
146	375.6	569.9	1958.875	2761.77
147	391.1	495.7	2004.771	2540.97

Retreated in Refinery, but not returned for Make-up:

32,662.894

172.061.234

Mint

Denver

Sup. M. & H. Dep't's

Mint

month of January

Minor Coinage

* 1672 655 158
72 529 540
2 883 368
41 324 793
62 894 250
82 660
208
72 563
A. Dep't
G. Exch. Bure
Broof Bure

* Mint fine
109.703.06
411.452.70

* Mint fine
109.703.06
411.452.70

1474 379 064
1852 742 520
1 44 196 998
1 22 185 998
1 20 946 158

*

922 630 98
922 630 98

* 567 528 60
7 872 75
23 138 68
17 966 21
29 905 57
32 40
106 89
17 012 84
663 563 94
Re. Dep't
G. Exch. Bure
Uncurrent Coin

1053 860 50

1053 860 50

* No receipt on hand

* 509 703 39
663 563 94
103 184 50
17 012 84
389 506 00
+ Mint fine
109.703.06
411.452.70

February 1
J. H. Wilson

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, January, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95
Bartlett, H.D.	---	100	96
Borstadt, G.	1 hr. leave	100	95
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95
Dardis, W.N.	---	100	95
Gray, G.B.	1 hr. leave	100	97
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	95
Lindhard, J.A.	---	100	97
Lundin, A.H.	---	100	95
Russell, N.A.	1 hr. leave	100	95
Schell, E.P.	2 " "	100	95
Smith, E.S.	---	100	95
Spencer, G.N.	1 da. 4 hrs. lv.	100	96
St. John, F.	1 hr. leave	100	100
Stoddard, X.T.	---	100	98
Taggart, B.H.	---	100	95
Whitaker, S.R.	---	100	95
Whitehead, H.R.	---	100	95
Wirth, B.P.	1 da. 2 hrs. lv.	100	100
Adams, O.L.		100	90
French, H.W.		100	90

Jan/13

REFINERY

1. Bullion sent to Refinery:			
a.	Bullion with charges	237,630.74	
b.	" without "	1,793.79	
c.	" .992 and over, Gold	12,148.12	
d.	" " " Silver	0.00	
e.	Retreated, Refinery bullion	102,078.49	
f.	" Mint fine bars	48,234.37	401,885.51
<hr/>			
2. Production of fine bullion, Gold			
	Silver	143,651.14	
		128,527.50	272,178.64
<hr/>			
3. Cost of operations:			
a.	Labor	\$1,805.64	
b.	Leave & holidays	76.35	
c.	M. & R. Gen'l	420.85	
d.	Crucibles	106.56	
e.	Gloves, mitts, etc.	70.50	
f.	Chemicals	0.00	
g.	Acids	820.05	
h.	Fuel oil	181.75	
i.	Supplies	227.41	
j.	Sweeps cellar	0.00	
k.	Repairs, material	24.17	
l.	" labor	124.52	
m.	Steam plant	183.48	
n.	Electric power	211.47	
o.	Light	14.26	
p.	Assay charges	233.51	
q.	Incidentals	0.00	
r.	189 shut-down expense	414.41	
	Total	\$4,914.93	
New Equipment		\$61.38	
<hr/>			
4.	Cost per crude ounce for month	x20222	.020683
5.	Average cost per crude oz. for fiscal year	x217xx	.017902
6.	Cost per oz. total operated upon for month		.012229
7.	Average cost per oz. total operated upon, fiscal year		.010537
<hr/>			
8. Gross wt. of bullion upon which charges were collected, 237,630.74			
<hr/>			
9.	Cost of operating Refinery	\$4,914.93	
10.	Parting & Refining chgs. collected	8,548.75	
11.	Profit on Refinery operations	3,633.82	
<hr/>			
12.	Average P. & R. Charges collected per ounce		.035974

INGOT ROOM

1. Amount bullion melted: Gold 573,670.80
Silver 49,908.55

2. Amount good ingots: Double Eagles 556,169.49
Half Dollars 49,019.00

3. Cost of Ingots:

	Gold	Silver	Total
a. Labor	\$288.33	\$37.47	\$325.80
b. M. & R. Gen'l	186.22	24.20	210.42
c. Mitts & Gloves	0.00	0.00	0.00
d. Crucibles	64.52	8.38	72.90
e. Sweeps cellar	0.00	0.00	0.00
f. Supplies	67.61	8.78	76.39
g. Fuel oil	87.11	11.32	98.43
h. Power	12.74	1.66	14.40
i. Steam	22.64	2.94	25.58
j. Light	0.00	0.00	0.00
k. Repairs	25.33	3.29	28.62
l. Vacation & Holidays	19.35	2.51	21.86
m. Alloy copper	458.32	14.61	472.93
n. 1/11 shut-down exp.	47.45	6.17	53.62
Totals	\$1,279.62	\$121.33	\$1400.95
			0.00

4. New equipment

5. Percentage of good ingots: Gold, 96.9 Silver, 98.2

6. Average cost of Ingots for fiscal year: Gold, .002390
Silver .002258
Nickel .002564
Bronze .002363

7. Cost distributed: Gold \$1279.62
Silver 121.33
Total \$1400.95

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NOVEL

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Bookkeeping

Bookkeeping

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Frederick M.

Quick

March 1st

... ..

Quick

March 1st

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, February, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	95 - 98
Bartlett, H.D.	1 day sick	100	96 - 99
Borstadt, G.P.	---	100	95 - 96
Bush, W.M.	---	100	99
Crary, J.H.	---	100	95 - 98
Dardis, W.N.	1 hr. lv.	100	95 - 98
Gray, C.B.	1 hr. lv.	100	97 - 99
Hetrich, J.M.	1 day lv.	100	100
Howbert, D.T.	1 day sick	100	95 - 96
Lindhard, J.A.	1 hr. lv.	100	97 - 99
Lundin, A.H.	1 hr. lv.	100	95 - 98
Russell, N.A.	---	100	95 - 98
Schell, E.P.	1 day sick	100	95 - 98
"	4 hrs. lv.		
Smith, E.S.	---	100	95 - 97
Spencer, G.N.	4 hrs. lv.	100	96 - 98
St. John, F.	1-1/2 hrs. lv.	100	100
Stoddard, K.T.	---	100	98 - 99
Taggart, B.H.	---	100	95 - 98
Whitaker, S.R.	1 hr. lv.	100	95 - 98
Whitehead, H.R. (detailed to Gen'l Dept.)			
Wirth, B.P.	---	100	100
French, G.	---	100	92 - 95

Feb/13

REFINERY

1. Bullion sent to Refinery:		
a. Bullion with charges	135,302.05	
b. " without "	957.02	
c. " .992 & over, gold	14,884.21	
d. " " " " silver	0.00	
e. Retreated, refinery bullion	118,524.63	
f. " mint fine bars	36,547.15	306,215.66

2. Production of fine metal: Gold	134,789.465
Silver	108,282.91

3. Cost of operations:	
a. Labor	\$1,653.37
b. Leave & Holidays	64.88
c. M. & R. Gen'l	388.87
d. Crucibles	0.00
e. Gloves, mitts, etc.	153.26
f. Chemicals	0.00
g. Acids	524.54
h. Fuel oil	166.41
i. Supplies	390.51
j. Sweeps cellar	97.72
k. Repairs -- material	24.56
l. " labor	94.28
m. Steam	145.40
n. Electric power	208.90
o. Light	19.00
p. Assay charges	311.62
q. Incidentals	0.00
r. 1/9 shut-down expense	414.41
Total	\$4,657.73

4. New Equipment	\$202.16
------------------	----------

4. Cost per crude ounce for month	.034424
5. Average cost per crude ounce for fiscal year	.019799
6. Cost per ounce total operated upon for month	.015210
7. Average cost per ounce total operated upon for fiscal year	.011226

8. Gross weight of bullion upon which charges were collected	135,302.05
--	------------

9. Cost of operating Refinery	\$4,657.73
10. P. & R. Charges collected	4,954.51
11. Profit in Refinery operations	\$296.78

12. Average P. & R. Charges collected, per ounce	.036617
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INGOT

1. Amount Bullion melted:	Gold	226,560.50		
	Silver	99,546.80		
	Nickel	37,587.00		
2. Amount Gold ingots:	Double Eagles	222,145.14		
	1/4 Dollars	97,098.95		
	Nickels	36,738.50	355,982.59	
3. Cost of Ingots	Gold	Silver	Nickel	Total
a. Labor	\$117.25	\$78.24	\$32.62	\$228.11
b. M. & R. Gen'l	99.94	66.69	27.80	194.43
c. Mitts & Gloves	0.00	0.00	0.00	0.00
d. Crucibles	18.87	12.60	5.25	36.72
e. Sweeps cellar	58.42	38.98	16.25	113.65
f. Supplies	6.40	4.27	1.78	12.45
g. Fuel Oil	31.64	21.11	8.80	61.55
h. Power	7.03	4.69	1.96	13.68
i. Steam	4.26	2.84	1.18	8.28
j. Light	.42	.28	.12	.82
k. Repairs	15.93	10.63	4.43	30.99
l. Leave & Holidays	13.48	8.99	3.75	26.22
m. Alloy copper	147.54	3.57		151.11
n. 1/11 shut-down exp.	27.56	18.39	7.67	53.62
Totals	\$548.74	\$271.28	\$111.61	\$931.63
4. New Equipment				0.00
5. Percentage of good ingots:	Gold, 98.	Silver, 97.5	Nickel, 97.7	
6. Average cost of ingots for fiscal year:	Gold	.002349		
	Silver	.002298	.002298	
	Nickel	.002579		
	Bronze	.002363		
7. Cost distributed:	Gold	\$548.74		
	Silver	271.28		
	Nickel	111.61		
	Total	\$931.63		

Gold and Silver Bullion and Minor Coinage Metal Balances in the Melter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of March, 1913

Approved _____

Superintendent.

Melter and Refiner.

Feb/13

REFINERY

1. Bullion sent to Refinery:	
a. Bullion with charges	321,076.14
b. " without "	4,348.91
c. " .992 & over, gold	15,521.54
d. Retreated: Refinery bullion	90,061.97
e. " Mint fine bars	11,286.60
	<u>442,290.06</u>

2. Production of fine metal: Gold	165,889.71
Silver	<u>81,182.95</u>

3. Cost of operations:	
a. Labor	\$1,804.01
b. Leave & Holidays	27.85
c. M. & R. Gen'l	345.12
d. Crucibles	50.40
e. Mitts, gloves, etc.	8.76
f. Chemicals	.90
g. Acids	288.14
h. Fuel Oil	246.40
i. Supplies	164.33
j. Sweeps cellar	148.05
k. Repairs -- material	42.87
l. " labor	164.68
m. Steam	121.32
n. Electric power	276.02
o. Light	15.00
p. Assay charges	283.27
q. Incidentals	0.00
r. 1/9 shut-down expense	414.41
Total	<u>\$4,401.31</u>

New Equipment 1,460.33

4. Cost per crude oz. for month	.013707
5. Average cost per crude oz. for fiscal year	.018495
6. Cost per oz. total operated upon for month	.009951
7. Average ditto, for fiscal year	.011002

8. Gross wt. bullion upon which charges were collected 321,076.14

9. Cost of operating Refinery	\$4,401.31
10. P. & R. Charges collected	12,391.19
11. Profit on Refinery operations	7,989.88

12. Average P. & R. charges collected per ounce .038592

INGOT

1. Amt. bullion melted, Nickel	475,931.00
2. " good ingots Nickels	474,053.70
3. Cost of ingots:	
a. Labor	\$428.17
b. M. & R. Gen'l	172.55
c. Mitts & Gloves	38.22
d. Crucibles	68.04
e. Sweeps cellar	0.00
f. Supplies	87.27
g. Fuel oil	225.66
h. Power	23.29
i. Steam	14.90
j. Light	.55
k. Repairs	42.38
l. Vacation & Holidays	6.11
m. 1/11 shut-down expense	<u>53.62</u>
Total	\$1,158.76
4. New Equipment	
5. Percentage of good ingots, 99.6	
6. Average cost of ingots for fiscal year:	
Gold	.002349
Silver	.002298
Nickel	.002539
Bronze	.002363
7. Cost distributed -- all nickel	

MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, April, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	2-1/2 hrs. lv.	100	98
Bartlett, H.D.	1 day sick	100	99
Borstadt, G.	---	100	98
Bush, W.M.	1-1/2 hrs. lv.	100	99
Crary, J.H.	---	100	99
Dardis, W.N.	1/2 hr. lv.	100	98
Gray, G.B.	2 hrs. lv.	100	99
Hetrich, J.M.	3 das. sick	100	100
Howbert, D.T.	---	100	96
Lindhard, J.A.	---	100	99
Lundin, A.H.	---	100	98
Russell, N.A.	1 hr. lv.	100	98
Schell, E.P.	2 hrs. lv.	100	98
Smith, E.S.	---	100	97
Spencer, G.N.	5-1/2 hrs. lv.	100	98
St. John, F.	4-1/2 hrs. lv.	100	100
"	4 das. sick		
Stoddard, X.T.	---	100	99
Taggart, B.H.	---	100	98
Whitaker, S.R.	1 da., 1/2 hr. lv.	100	98
Whitehead, H.R. (deatiled to Gen'l Dept.)			
Wirth, B.P.	1/2 hr. lv.	100	100
		100	95
French, G.	---		

REFINERY

Apl/13

1 Bullion sent to Refinery:		
a. Bullion with charges	300,175.97	
b. " without "	1,788.88	
c. " .992 & over, Gold	7,973.18	
	Silver	264.29
d. Retreated, Ref'y bullion	96,041.64	
e. Mint fine bars retreated	0.00	
		406,243.96
2. Production of fine metal:		
	Gold	224,161.16
	Silver	87,899.35
		312,060.51

3. Cost of operations:	
a. Labor	\$1,671.71
b. Leave & Holidays	44.78
c. M. & R. Gen'l	338.23
d. Crucibles	25.20
e. Mitts, gloves, etc.	98.95
f. Chemicals	0.00
g. Acids	392.91
h. Fuel oil	234.62
i. Supplies	202.90
j. Sweeps cellar	101.56
k. Repairs -- Material	23.35
l. " Labor	202.44
m. Steam	172.32
n. Electricity	334.68
o. Light	12.00
p. Assay charges	298.32
q. Incidentals	0.00
r. 1/9 shut-down expense	414.41
Total	\$4,478.38

New Equipment

4. Cost per crude oz. for month	21.15
5. Average cost per crude oz. for year	.014919
6. Cost per oz. total operated upon for month	.017898
7. Average cost per oz. " " year	.011023
8. Gross wt. bullion upon which charges were collected	.011005
9. Cost of operating Refinery	300,175.95
10. P. & R. Charges collected	\$4,478.38
11. Profit on Refinery operations	11,684.41
12. Average P. & R. Charges collected, per ounce	7,206.03
	.038925

INGOT ROOM

1. Amt. of metal melted -- all nickel		535,473.50
2. " " good ingots		531,991.20
3. Cost of Ingots:		
a. Labor	\$447.57	
b. M. & R. Gen'l	169.11	
c. Mitts & gloves	21.88	
d. Crucibles	0.00	
e. Sweeps cellar	149.95	
f. Supplies	74.85	
g. Fuel oil	254.18	
h. Power	24.10	
i. Steam	32.31	
j. Light	.96	
k. Repairs	19.25	
l. Leave & Holidays	15.59	
m. 1/11 shut-down expense	53.62	
Total	\$1,263.37	
4. New Equipment	0.00	
5. Percentage of good ingots,	99.3	
6. Average cost of ingots for fiscal year:		
	Gold	.002349
	Silver	.002298
	Nickel	.002499
	Bronze	.002363
7. Cost distributed -- all nickels		

MINIST OF THE UNITED STATES AT DENVER

of the Mint by him during the month of May, 1911

GOLD.

Standard Coins

TRAY COINER

Dec

TRAY COINER

Dec

Mint Coins

NICKEL

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TRAY COINER

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MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, May, 1913. *Sum*

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	98
Bartlett, H.D.	---	100	99
Borstadt, G.	---	100	98
Bush, W.M.	1 hr. leave	100	99
Crary, J.H.	---	100	99
Dardis, W.N.	1 hr. leave	100	98
Gray, G.B.	---	100	99
Hettrich, J.M.	9-1/2 das. leave		
	5 das. sick	100	100
Howbert, D.T.	---	100	96
Indhard, J.A.	---	100	99
Lundin, A.H.	---	100	98
Russell, N.A.	---	100	98
Schell, E.P.	1-1/8 hrs. leave	100	98
Smith, E.S.	1 hr. leave	100	97
Spencer, G.N.	3-1/2 hrs. leave	100	98
St. John, F.	1 day 1 hr. leave	100	100
Stoddard, X.T.	1 day leave	100	99
Taggart, B.H.	---	100	98
Whitaker, S.R.	---	100	98
Wirth, E.P.	5-1/8 hrs. leave	100	100
French, G.	---	100	98

REFINERY

1. Bullion sent to Refinery:		
a. Bullion with charges	175,340.84	
b. " without "	1,871.69	
c. " 992 & over, gold	8,459.01	
d. " retreated, refinery	66,906.30	
e. Mint fine bars retreated	525.90	252,903.74

2. Production of fine metal: Gold	234,211.84	
Silver	51,580.40	285,792.24

3. Cost of operations:	
a. Labor	\$1,608.91
b. Leave & Holidays	154.02
c. M. & R. Gen'l	353.18
d. Crucibles	55.44
e. Mitts, gloves, aprons	87.13
f. Chemicals	0.00
g. Acids	399.74
h. Fuel oil	223.90
i. Supplies	262.45
j. Sweeps cellar	40.83
k. Repairs -- material	21.00
l. " labor	182.12
m. Steam	103.30
n. Electricity	355.65
o. Light	12.00
p. Assay chgs.	293.28
q. Incidentals	0.00
r. 1/9 shut-down expense	414.41
Total	\$4,567.36

New equipment, none

4. Cost per crude ounce for month	.026048
5. " " " " " year	.018622
6. Cost per ounce total operated upon for month	.018059
7. " " " " " " " year	.011566

8. Gross weight of bullion upon which charges were collected 175,340.84

9. Cost of operating refinery	\$4,567.36
10. P. & R. Charges collected	7,081.13
11. Profit on refinery operations	2,513.77

12. Average P. & R. Charges collected, per ounce .040384

INGOT ROOM

1. Amt. of bullion melted:	Nickel	242,687.50		
	Bronze	223,959.50		
2. Amt. of good ingots:	Nickel	240,390.00		
	Bronze	222,445.80		
3. Cost of Ingots	Nickel	Bronze	Total	
a. Labor	\$167.75	\$181.73	\$349.48	
b. M. & R. Gen'l	84.76	91.83	176.59	
c. Mitts & Gloves	4.18	4.52	8.70	
d. Crucibles	14.52	15.72	30.24	
e. Sweeps cellar	67.68	73.33	141.01	
f. Supplies	32.54	35.24	67.78	
g. Fuel Oil	90.09	97.59	187.68	
h. Power	13.39	14.51	27.90	
i. Steam	12.40	13.43	25.83	
j. Light	.46	.50	.96	
k. Repairs	8.57	9.29	17.86	
l. Leave & Holidays	26.39	28.59	54.98	
m. 1/11 shut-down exp.	25.74	27.88	53.62	
Totals	548.47	594.16	1142.63	
4. New Equipment, none				
5. Percentage of good ingots:	Nickel, 99	Bronze, 99.3		
6. Average cost of ingots for fiscal year:	Gold	.002349		
	Silver	.002298		
	Nickel	.002752		
	Bronze	.002833		
7. Cost distributed:	Nickel	\$548.47		
	Bronze	<u>594.16</u>		
		\$1142.63		

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Refinery Operations, covering a period of eight months, were as follows:

GOLD ACCOUNT

		Fine Ounces
Delivered to the Refinery		1,711,570.548
Returned prior to Settlement	1,355,764.988	
" at "	355,725.180	1,711,490.168
Operative Wastage		80.380

SILVER ACCOUNT

Delivered to the Refinery		1,276,551.06
Returned prior to Settlement	706,952.01	
" at "	569,965.19	1,276,917.20
Surplus		366.14

The Refinery also returned 477.5 lbs. Copper; 58.20 Troy ozs. Platinum, and 10.15 Troy ozs. Palladium.

The Refinery earnings were as follows:

Charges collected on bullion treated	\$71,995.43
By-products, as above itemized (approximated)	3,240.93
Total	\$75,236.36

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

The Following MELTS were made:

	Gold	Silver	Total
Deposits	4623	920	5543
Anodes	170	306	476
Cathodes	28	19	47
Ingots	134	328	462
Fine Bars	197	144	341
Slimes			486
Settlement	16	45	61
Sweats			534
Nickel Ingots			729
Bronze "			378
Miscellaneous			9
	Total		9066

Ingot Melts condemned: None

" " remelted: 2 Gold, and 2 Silver

Number of employees in Refinery 15

" " " " M. & R. Dept. 21

Mint

Denver

Mint

Minor Coinage

Nickel & Bronze

1036 546 452
57 412 961
2 099 984
33 850 518
29 657 367
1 087 451
12 741
37 688
1160 705 162

Re Deposits
Coiners Surplus Clump
S. Lake Receipts
Gold Exchange Bns

32 754 879
34 796 413
1092 719 376
407 966
26 528
in deficit
Wastage
0 000
1160 705 162

Nickel Clippings
Bronze
1896 700 81
34 508 60
6 436 60

Settled nickel - Nickel
" " Bronze
Wastage - Nickel
" " Bronze
1338 565 18
477 123 23
11 409 80
8 166 90
0 000
1937 646 01

741 500 66
6 918 94
17 084 33
12 748 08
12 084 71
145 99
8 67
10 43
1032 30
791 534 11

Re Deposits
Coiners Surplus & Clump
S. Lake Receipts
Gold Exchange Bns
Surplus

in deficit * 765 315 09
" 1 119 21

21 306 11
3 793 70

791 534 11
0 00

Dec. 380,922.03, the only Refs. Recd.

July 5

3 Goldminers

MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, June, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	1 da. 2 hrs. lv.	100	98
Bartlett, H.D.	1 " 2 " "	100	99
Borstadt, G.	1 " 4 " "	100	96
Bush, W.M.	6 " "	100	99
Crary, J.H.	2 " "	100	99
Dardis, W.N.	1-1/2 hrs. lv.	100	98
Gray, G.B.	1 da. 2 hrs.	100	99
Hetrich, J.M.	---	100	100
Howbert, D.T.	6 das.	100	96
Lindhard, J.A.	7 " "	100	99
Lundin, A.H.	1 " 2 hrs.	100	98
Russell, N.A.	3 " "	100	98
Schell, E.P.	6 " 1 hr.	100	98
Smith, E.S.	1 " 2 "	100	97
Spencer, G.N.	2 " 2 "	100	98
St. John, F.	1 " "	100	100
Stoddard, K.T.	1 da. 4 "	100	99
Taggart, B.H.	13 " "	100	98
Whitaker, S.R.	3 " 5 hrs.	100	98
Wirth, B.P.	4 hrs.	100	100
French, G.	1 da. 2 "	100	95

All Clean-up, for settlement, Costs:

a. Labor	\$1,542.95
b. Leave & Holidays	162.69
c. M. & R. Gen'l	419.68
d. Crucibles	73.08
e. Mitts, gloves, aprons	11.70
f. Chemicals	0.00
g. Acids	0.00
h. Fuel oil	60.00
i. Supplies	110.39
j. Sweeps cellar	252.78
k. Repairs--material	31.57
l. " labor	153.60
m. Steam	123.47
n. Electricity	14.89
o. Light	4.00
p. Assay charges	153.08
q. 1/9 shut-down expense	414.41

Less

3,508.19

215.00 cost of refining cop-
per, platinum, &
palladium

Total

\$3,293.19

5. Cost per crude ounce for year

6. " " ounce total operated upon

.020302

.012609

INGOT ROOM

1. Amount of metal melted: Gold

Silver	36,758.72
Nickel	23,882.13
Bronze	70,101.10
	12,072.60

2. Amount of good ingots:

Double Eagles	36,394.47
Quarter dollars	23,673.45
Nickel	69,936.20
Bronze	12,036.00

3. Cost of Ingots: Gold

Silver	Nickel	Bronze	Total
--------	--------	--------	-------

a. Labor	\$29.20	\$29.21	\$204.42	\$29.20	\$292.03
b. M. & R. Gen'l	20.97	20.98	146.86	20.98	209.79
c. Mitts & Gloves	0.00	0.00	0.00	0.00	0.00
d. Crucibles	0.00	0.00	0.00	0.00	0.00
e. Sweeps cellar	7.05	7.06	49.41	7.06	70.58
f. Supplies	1.00	.99	6.97	1.00	9.96
g. Fuel oil	2.58	2.58	18.06	2.58	25.80
h. Power	2.29	2.29	16.04	2.29	22.91
i. Steam	3.09	3.09	21.61	3.08	30.87
j. Light	.10	.10	.70	.10	1.00
k. Repairs	1.66	1.67	11.65	1.67	16.65
l. Leave & H'days	9.05	9.06	63.41	9.06	90.58
m. 1/11 shut-down	5.36	5.36	37.54	5.36	53.62
n. Alloy copper	3.14	9.24			12.38
Totals	\$85.49	\$91.63	\$576.67	\$82.38	\$836.17

One-half of the above expense was incurred in clean-up for settlement

5. Percentage of good ingots: Gold, 99; Silver, 99.1; Nickel, 99.7
Bronze, 99.66. Average cost of ingots per ounce for fiscal year: G. .002355
S. .002322
N. .002640
B. .0024457. Cost distributed: Gold \$85.49
Silver 91.63
Nickel 576.67
Bronze 82.38
Total \$836.17

Amount of ~~gold~~ ingots made in the Denver Mint, in the fiscal year ended June 30th, 1913, and the average cost per ounce for each item of expense connected therewith:

	GOLD		SILVER		NICKEL		BRONZE	
Amount of Ingots	Total	Per oz.	Total	Per oz.	Total	Per oz.	Total	Per oz.
a. Labor	814.709.10		1,328,169.89		3,473,933.60		1,493,452.10	
b. M. & R. Gen'l	Total Cost \$434.78	.000533	Total \$864.47	.000650	Total \$2,443.95	.000987	Total \$1,529.17	.001030
c. Mitts & Gloves	307.13	.000376	465.37	.000350	1,159.54	.000438	521.00	.000387
d. Crucibles	5.05	.000003	12.10	.000009	89.75	.000036	42.48	.000028
e. Sweeps cellar	83.39	.000102	103.93	.000073	266.78	.000107	211.74	.000141
f. Supplies	65.47	.000080	46.04	.000034	283.29	.000114	80.39	.000053
g. Fuel oil	75.01	.000092	109.86	.000082	322.35	.000150	130.19	.000120
h. Power	121.33	.000148	198.95	.000149	1,011.54	.000408	515.69	.000344
i. Steam	22.06	.000027	42.50	.000032	127.43	.000051	50.37	.000033
j. Light	29.99	.000036	70.54	.000053	174.40	.000070	105.45	.000070
k. Repairs	.52	.000001	5.15	.000003	7.81	.000005	6.87	.000004
l. Vacation & H'days	42.92	.000052	69.59	.000052	149.85	.000060	61.97	.000041
m. Alloy copper	41.83	.000051	211.45	.000159	203.52	.000082	201.69	.000134
n. Shut-down exp.	609.00	.000747	765.05	.000576	232.30	.000118	96.95	.000064
	80.37	.000098	120.21	.000090				
Totals	\$1,918.90	.002355	\$3,085.21	.002322	\$6,532.51	.002640	\$3,663.96	.002445

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of Refiners and Receipts from and Deliveries to the Superintendent

OF THE UNITED STATES AT

1913

GOLD

NICKEL

TRAY OUNCES

STANDARD OUNCES

Dec

Dec

in Refining

1092 719 376

Delivered

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

in Refining

320 774 985

Delivered

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

in Refining

1438 326

Delivered

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1226 716 707

Delivered

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

July 31

1276 716 717

1276 716 717

1276 716 717

1276 716 717

1276 716 717

1276 716 717

1276 716 717

1276 716 717

1276 716 717

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July 31

1276 716 717

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1276 716 717

1276 716 717

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1276 716 717

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1276 716 717

1276 716 717

in Refining

765 315 09

Delivered

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in Refining

13 170 84

Delivered

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in Refining

11 544 15

Delivered

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in Refining

26 755 96

Delivered

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837 678 74

Delivered

1000

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July 31

837 678 74

837 678 74

837 678 74

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MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, July, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	9 das. leave	100	98
Bartlett, H.D.	9 " "	100	99
Borstadt, E.	10 " "	100	96
Bush, W.M.	9 " "	100	99
Crory, J.H.	9 " "	100	99
Dardis, W.N.	9 " leave	100	98
	10 " sick		
Gray, G.B.	9 " leave	100	99
Hetrich, J.M.	1 day 4 hrs. leave	100	100
Howbert, D.T.	9 das. leave	100	96
Lindhard, J.A.	9 das. 2 hrs. leave	100	99
Lundin, A.R.	8 das. leave	100	98
Russell, N.A.	9 " "	100	98
Schell, E.P.	8 das. 4 hrs. leave	100	98
Smith, E.S.	9 das. leave	100	97
Spencer, G.N.	9 " "	100	98
St. John, F.	18 " 3 hrs. leave	100	100
Stoddard, X.T.	9 " leave	100	99
Taggart, B.H.	17 " "	100	98
Whitaker, S.R.	9 " "	100	98
Wirth, E.P.	7 " 4 hrs. leave	100	100
French, G.	9 " leave	100	95

INGOT ROOM

July/13

1. Amount of metal melted: Nickel	102,479.10	Bronze	395,648.18
2. " " ingots "	100,050.90	"	386,493.10

3. Cost of Ingots:	Nickel	Bronze	Total
a. Labor	\$137.65	\$460.84	\$598.49
b. M. & R. Gen'l	34.14	114.29	148.43
c. Mitts & Gloves	9.42	31.54	40.96
d. Crucibles	20.87	69.85	90.72
e. Sweeps cellar	0.00	0.00	0.00
f. Supplies	35.77	119.75	155.52
g. Fuel oil	47.92	160.42	208.34
h. Power	5.20	17.40	22.60
i. Steam	7.36	24.64	32.00
j. Light	.46	1.54	2.00
k. Repairs	5.80	19.41	25.21
l. Vacation & H'days	52.31	175.11	227.42
Totals	\$356.90	\$1194.79	\$1551.69

4. New Equipment, None

5. Percentage of good ingots: Nickel, 97.6
Bronze, 97.6

6. Cost per ounce: Nickel, .003567
Bronze, .003091

7. Distribution of Cost: Nickel \$356.90
Bronze 1194.79

REFINERY

Not operating -- Total expense \$1,949.17

M. & R. Cost Report, August, 1913

INGOT ROOM

1. Amount of metal melted: Bronze 322,676.70
 2. " " ingots " 320,663.70

3. Cost of Ingots:

a. Labor	\$468.60
b. M. & R. Gen'l	177.06
c. Mitts & Gloves	28.75
d. Crucibles	0.00
e. Sweeps cellar	0.00
f. Supplies	21.95
g. Fuel oil	48.95
h. Power	13.70
i. Steam	17.00
j. Light	2.00
k. Repairs	20.60
l. Vacation & Holidays	202.94

Total \$1,001.55

4. New equipment 290.74

5. Percentage of good ingots, 99.3

6. Average cost of ingots 2 months: Nickel, .003567; Bronze, .003105

7. Distribution of cost -- all bronze

REFINERY

Not operating.	Expense: July	\$1,949.17	\$1949.17
	August	1,977.02	1977.77
	Total	\$3,926.19	\$3926.94

New Equipment \$525
 3926.19

Mist

Denver, Colo.

Supt. M. & B. Dept.

Supt. M. & R. Dept.
is in the Master and Refiner's hands and Receipts from and Deliveries to the Superintendent
by him during the month of August

of the Mint

by him during the month of August, 1913

Minor Change

Nickel + Bronze

TROY OUNCE	Dec.
	Delivered
	Brong
	Wastage - Nickel
	Bronze
	Dolls in Serial
	Balance
	Total
1407 486 41	
69 762 40	
147721881	

Oct. 6.

Gold. O. mileson

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MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, Sept., 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	98
Bartlett, H.D.	5-1/2 hrs. lv.	100	99
Borstadt, G.	---	100	98
Bush, W.M.	2-1/2 hrs. lv.	100	99
Crary, J.H.	4 hrs. lv.	100	99
Dardis, W.N.	10 das. lv.	100	98
French, G.	---	100	97
Gray, G.B.	1 da. 4 hrs. lv.	100	99
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	97
Lindhard, J.A.	---	100	99
Lundin, A.H.	1/2 hr. lv.	100	98
Russell, N.A.	3-1/2 hrs. lv.	100	98
Schell, E.P.	2-1/2 hrs. "	100	98
Smith, E.S.	---	100	98
Spencer, G.N.	---	100	99
St. John, F.	1 day lv.	100	100
Stoddard, X.T.	4 das. 4 hrs. lv.	100	99
Whitaker, S.R.	3 das. Sick	100	98
Whitehead, H.R.	---	100	98

Cost Report, M. & R. Dept., Sept., 1913

Ingot Room

1. Amount of metal melted:	Nickel	228,440.60		
	Bronze	578,178.20		
2. Amount of good ingots:	Nickel	227,190.00		
	Bronze	574,886.60		
3. Cost of Ingots:	Nickel	Bronze	Total	
a. Labor	\$297.60	\$647.16	\$944.76	
b. M. & R. Gen'l	54.10	117.64	171.74	
c. Mitts & Gloves	9.88	21.47	31.35	
d. Crucibles	21.43	46.61	68.04	
e. Sweeps cellar	0.00	0.00	0.00	
f. Supplies	13.02	28.30	41.32	
g. Fuel oil	101.93	221.66	323.59	
h. Power	13.17	28.63	41.80	
i. Steam	20.45	44.47	64.92	
j. Light	2.09	4.53	6.62	
k. Repairs	11.25	24.47	35.72	
l. Vacation & H'days	61.50	133.74	195.24	
Totals	\$606.42	\$1,318.68	\$1,925.10	

4. New Equipment \$153.96

5. Percentage of good ingots: Nickel 99.4
 Bronze 99.4

6. Average cost of ingots for 3 months: Nickel .002943
 Bronze .002741

7. Distribution of cost: Nickel \$606.42
 Bronze 1318.68
 Total \$1925.10

 Refinery

Not operating

Expense \$1,228.42
 New Equipment 32.16

11/23/13

MELTER AND REFINERS BALANCES.

Report of the UNITED STATES AT SUP: M. & R. DEPT'S hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of October, 1913

Minor Coinage:

NICKEL & BRONZE

For October

Dec

Received	Delivered	For October	Dec
<p>Oct. 1</p> <p>507 933 03</p> <p>1458 508 33</p> <p>132 917 60</p>	<p>Nickel</p> <p>Brass</p>	187 678 00	378 611 00

2099 358 96

BRONZE

Balance	Oct. 31	
	1533 069 96	2099 358 96

28 822 70

* Right 29,538.105
Wrong 1688.827.813

Oct. 31 17 18 395 918
1852 584 024

1852 584 024

General Set Base
Gold & Silver
Silver

Re Dep

1664 426 940
87 935 145
3 260 127
96 836 929

11 734
107 884
4 665

Oct. 1 974 748 63
11 889 10
309 07 80
302 04 23

Re Dep

General Set Base
Gold & Silver
Silver

1047 875 62

Oct. 31 X 1047 875 62
1047 875 62

* Right 436.496.86
Wrong 611.378.76

Nov. 4

Specimen

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, October, 1913

	Time Lost	Conduct	Workmanship
Arnold, R.G.	14 das. sick	100	98
	4 hrs. leave		
Bartlett, H.D.	3 " "	100	99
Borstadt, G.	3 das. 4 hrs. lv.	100	98
Bush, W.M.	---	100	99
Crary, J.H.	---	100	99
Dardis, W.N.	5 hrs. leave	100	98
French, H.W.	--- 1 hr.	100	97
Gray, G.B.	4 das. leave	100	99
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	97
Hume, F.N.	---	100	92
Lindhard, J.A.	4 hrs. leave	100	99
Lundin, A.H.	---	100	98
Russell, N.A.	1 day leave	100	98
Schell, E.P.	---	100	98
Smith, E.S.	---	100	98
Spencer, G.N.	---	100	98
St. John, F.	1 da. 4-1/2 hrs. leave	100	100
Stoddard, X.T.	2-1/2 hrs. "	100	99
Whitaker, S.R.	---	100	98
Whitehead, H.R.	---	100	98
Metcalf, L.	---	100	92

Cost Report, October/13

REFINERY

1. Bullion sent to Refinery!		
a. Bullion with charges	256,332.40	
b. " without "	221,934.77	
c. " .992 & over, Gold	54,458.41	
" " " " Silver	869.91	
d. " Refinery retreated	6,922.85	
e. Mint fine bars	9,297.90	549,816.24
		<hr/>
2. Production of fine Gold	166,749.26	
" " " Silver	64,928.35	231,677.61
		<hr/>
3. Cost of operations:		
a. Labor	\$1,537.33	
b. Vacation & H'days	150.33	
c. M. & R. Gen'l	388.63	
d. Crucibles	75.60	
e. Mitts, gloves, aprons	110.02	
f. Chemicals	35.52	
g. Acids	523.57	
h. Fuel oil	149.50	
i. Supplies	308.98	
j. Sweeps cellar	0.00	
k. Repairs -- material	78.68	
l. " labor	221.45	
m. Steam	215.27	
n. Electricity	345.87	
o. Light	18.75	
p. Assay charges	268.30	
	<hr/>	
Total	\$4,427.80	
New equipment	\$42.75	
4. Cost per crude oz. for month	.017273	
5. " " " " " year	same	
6. " " oz. total operated upon for month	.008053	
7. " " " " " " year	same	
8. Gross wt. of bullion with charges	256,332.40	
9. Cost of operating Refinery	\$4,427.80	
10 P. & R. Charges collected	10,549.06	
11. Profit on Refinery operations	\$6,121.26	
12. Average P. & R. Charges collected, per ounce	.041155	

Note:- The shut-down expense will be apportioned at end of year.

-2-

INGOT ROOM

1. Amount of bullion melted:	Nickel	164,500.00		
	Bronze	376,677.60	541,177.60	
2. Amount of good ingots:	Nickel	163,971.60		
	Bronze	374,506.60	538,478.20	
3. Cost of Ingots:	Nickel	Bronze	Total	
a. Labor	\$157.63	\$315.27	\$472.90	
b. M. & R. Gen'l	64.77	129.55	194.32	
c. Mitts & Gloves	7.66	15.34	23.00	
d. Crucibles	22.68	45.36	68.04	
e. Sweeps cellar	0.00	0.00	0.00	
f. Supplies	27.97	55.95	83.92	
g. Fuel oil	51.33	102.66	153.99	
h. Power	12.00	24.00	36.00	
i. Steam	15.10	30.22	45.32	
j. Light	.42	.83	1.25	
k. Repairs	9.02	18.05	27.07	
l. Vacation & Holidays	9.08	18.18	27.26	
	Total	\$377.66	\$755.41	\$1,133.07
4. New equipment:	None			
5. Percentage of good ingots:	Nickel	99.6		
	Bronze	99.4		
6. Average cost of ingots for 4 months:	Nickel	.002729		
	Bronze	.002577		

Nov. 15, 1913

Gain and Loss in Gold in GOLD ANODE Melts, Denver Mint, October, 1913.

Page 1

No. of Melt	No. of Bars	Before Melting		After Melting		Fine Ozs.	
		Weight	Fineness	Weight	Fineness	Gain	Loss
1	8	6069.20	.9943	6034.576	.9941		2.974
2	14	5827.08	.9934	5788.845	.9932		2.870
3	12	5732.07	.9946	5701.181	.9948		.450
4	7	5607.07	.9935	5571.007	.9940	1.506	
5	5	5513.10	.8383	4621.497	.8385		3.023
6	5	5760.80	.8426	4853.908	.8427		1.810
7	6	5863.18	.8516	4992.972	.8518		2.796
8	5	5575.46	.8415	4691.912	.8414		3.245
9	5	5526.00	.8465	4678.008	.8470		4.356
10	6	6103.29	.8254	5037.821	.8259	.202	
11	5	5962.40	.8356	4982.387	.8359		4.436
12	6	6032.33	.8185	4937.826	.8191		1.397
13	6	5414.33	.8186	4431.858	.8186		4.444
14	7	5764.93	.8162	4705.359	.8162		3.860
15	5	5558.75	.8298	4612.417	.8301		3.852
16	5	5501.08	.8264	4545.937	.8264		11.712
17	7	6210.42	.9947	6177.706	.9950	.736	
18	8	5798.23	.9843	5707.324	.9846	.382	
19	11	4944.97	.9853	4872.129	.9852		1.665
20	6	6042.90	.8319	5027.290	.8323		7.564
Forward		114,807.59		101,971.960		2.826	60.454
				114,714.66			
				101,914.332			

GOLD ANODES

Page 2

Forward	114,807.59	101,971.960	114,714.66	101,914.332	2.826	60.454
21	5890.90	4894.184	5882.97	4891.101		3.083
22	5866.05	4838.475	5859.13	4830.266		8.209
23	5818.10	4873.598	5811.82	4867.399		6.199
24	5888.83	5030.583	5884.92	5026.898		3.685
25	5940.25	4976.862	5935.98	4972.081		4.781
26	5946.04	4893.862	5940.61	4889.716		4.146
27	5949.08	4900.376	5944.08	4894.355		6.021
28	5654.15	5209.806	5652.31	5208.603		1.203
29	5602.78	5495.189	5600.98	5493.441		1.748
30	5835.52	5167.257	5829.28	5162.410		4.847
31	6109.48	5310.544	6104.37	5309.581		.963
32	5903.73	5279.038	5900.50	5277.407		1.621
33	6040.16	4954.551	6033.85	4948.963		5.568
34	Special					
35	6263.06	6056.988	6253.83	6048.078		8.910
36	6057.69	5815.428	6055.44	5813.222		2.206
37	4625.44	4054.197	4622.38	4049.667		4.530
38	6093.97	5123.945	6090.74	5122.921		1.024
39	6415.35	5420.261	6411.04	5419.252		1.009
41 *	6039.55	4942.619	6035.07	4939.101		3.518
43 *	6309.00	5876.846	6306.21	5880.540		
Totals	233,056.72	205,086.559	232,868.17	204,959.334	6.520	133.745 Loss
						6.520 Gain
						127.235
						84.201
						43.024

* Nos. 40 & 42 melted in Nov.

Loss before Recovery
Recovery for Month
Ozs. Gold net loss

43.024

Gain and Loss in Gold in SILVER ANODE Melts, Denver Mint, October, 1913.

No. of Melt	No. of Bars	Before Melting		After Melting		Fine Ozs.	
		Weight	Fineness	Weight	Fineness	Gain	Loss
1	39	4750.90	.3969	4746.10	.3963		4.721
2	40	4767.30	.4004	4762.79	.3996		5.628
3	29	4754.70	.4039	4749.30	.4034		4.650
4	27	4672.03	.3959	4666.04	.3960		2.214
5	27	4738.95	.3947	4736.69	.3948		.763
6	27	4785.71	.3947	4783.08	.3947		1.021
7	27	4411.97	.4016	4405.56	.4017		2.422
8	24	4639.70	.4003	4633.59	.4002		3.104
9	31	4658.97	.4079	4652.06	.4082		1.520
10	44	4561.55	.4031	4559.70	.4033		.009
11	35	4557.00	.3981	4554.21	.3981		.922
12	43	4527.90	.4027	4519.29	.4029		2.558
13	35	4582.95	.4085	4578.82	.4086	.207	1.460
14	43	4604.65	.3896	4596.88	.3903		1.445
15	38	4435.90	.3992	4428.75	.3995		2.658
16	54	4316.27	.3921	4308.17	.3922		.903
17	42	4535.80	.3801	4529.07	.3805		1.708
18	39	4745.00	.3996	4740.49	.3996		2.014
19	41	4660.90	.3929	4654.71	.3929		.141
20	16	4741.73	.3908	4737.58	.3911		
21	15	4664.70	.3843	4659.56	.3850	1.458	

Forward	97,114.58	38,556.911	97,002.44	39,518.715	1.665	39.861
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SILVER ANODES

Forward	97, 114.58	38, 556.911	97, 002.44	38, 518.715	1.665	39.861
22	16	1799.362	4770.19	1802.654	3.292	6.783
23	15	1916.519	4782.71	1909.736		4.200
24	6	1803.080	4722.71	1798.880		2.024
25	6	1819.989	4730.59	1817.965		
26	6	1878.645	4713.18	1878.673	.028	
27	6	1833.851	4599.97	1834.008	.157	4.562
28	34	1775.268	4506.76	1770.706		1.835
29	28	1908.555	4770.38	1906.720		1.669
30	16	1770.591	4617.39	1768.922		1.650
31	25	1912.109	4875.92	1907.459		2.395
32	20	1866.896	4764.89	1864.501		2.680
33	20	1881.247	4675.38	1878.567		5.036
34	13	1771.595	4580.14	1766.559		
35	15	1803.687	4812.82	1804.807	1.120	
36	12	1869.167	4707.66	1870.353	1.186	.190
37	12	1839.297	4749.76	1839.107		2.882
38	42	1868.794	4710.71	1865.912		1.426
39	16	1779.728	4401.74	1778.302		
Totals	181,736.83	71,655.291	181,495.34	71,582.546	7.448	80.193 Loss
						7.448 Gain
						72.745
						85.137
						12.392

Gain and Loss in Gold in melting GOLD Anode melts, Denver Mint, November, 1913.

No. of Melt	No. of Bars	Before Melting		After Melting		Fine ozs.	
		Weight	Fineness	Weight	Fineness	Gain	Loss
40	6	6237.05	.8483	6231.15	.8484		4.396
42 #1	8	6610.87	.9578	6608.91	.9582	.764	
44 #1	6	6156.52	.8348	6149.01	.8348		6.375
45	7	6108.98	.8230	6104.63	.8231		2.706
46	7	6234.22	.8373	6228.16	.8377		2.528
47	6	6121.96	.8193	6118.80	.8196		1.213
48	6	6337.64	.9733	6335.24	.9733		1.981
49	7	6051.64	.8381	6050.25	.8381		1.062
50	6	6235.57	.8236	6233.95	.8237		.646
51	7	6075.82	.8310	6072.95	.8314		.325
52	6	5781.00	.8259	5778.38	.8262		.324
53	6	6075.49	.8200	6072.18	.8200		2.880
54	6	6224.08	.8133	6221.26	.8124		1.366
55	6	6206.82	.8232	6203.78	.8235		.984
56	5	6089.45	.8167	6082.89	.8170		3.644
57	6	5926.84	.9777	5925.08	.9777		1.594
58	7	6178.32	.8256	6170.65	.8258		5.481
59	7	6309.67	.8165	6305.72	.8168		1.189
60	5	5971.97	.8539	5968.45	.8542		1.013
61	5	5698.79	.8253	5695.95	.8258	.369	
62	12	5737.60	.9428	5735.71	.9430		.668
63	6	6237.93	.8141	6249.18	.8146		4.092
64	5	6052.34	.8108	6050.71	.8113	1.793	
65	6	6125.70	.8284	6123.51	.8291	2.150	
66	6	6112.70	.8181	6109.10	.8183		1.836
67	9	Special					
68	6	6115.74	.9354	6114.02	.9334		13.837
69	7	5976.81	.8306	5974.49	.8308		.091
70	8	6113.21	.8386	6105.08	.8389		5.023
71 #2	7	6080.15	.8343	6083.92	.8345		3.335
72	7	6444.20	.9309	6438.90	.9398		5.367
				156,621.622	156,561.801	5.095	74.916
							5.023
							60.821
							61.375
							8.446

Loss on melts
Recovery for month
Net loss in gold

#1 Nos. 41 & 42 melted in Oct.
#2 No. 72 melted in Dec.

Gain and Loss in Gold in melting SILVER Anode melts, Denver Mint, November, 1913.

No. of Melt	No. of Bars	Weight	Before Melting		Weight	After Melting		Fine ozs.	
			Fineness	Fine ozs.		Fineness	Fine ozs.	Gain	Loss
40	5	4780.00	.4021	1922.214	4772.77	.4025	1921.039		1.175
41	6	4714.26	.4025	1897.762	4709.59	.4032	1898.906		
42	5	4589.58	.3923"	1800.590	4559.98	.3932	1792.984	1.144	7.606
43	4	4588.39	.3890	1784.936	4573.09	.3895	1781.675		3.261
44	19	4665.44	.3890	1814.750	4655.58	.3895	1815.348		1.402
45	17	4754.27	.4054	1919.479	4726.71	.4056	1917.153		2.326
46	17	4686.96	.4010	1879.365	4680.22	.4010	1876.788		2.777
47	11	4734.19	.4009	1897.971	4727.59	.4008	1894.818		3.153
48	20	4542.34	.3953	1795.817	4534.02	.3949	1790.484		5.335
49	20	4563.81	.3848	1756.494	4554.15	.3844	1750.615		5.879
50	41	4919.35	.3801	1870.007	4906.58	.3789	1859.103		10.904
51	36	4635.84	.4050	1885.541	4645.09	.4059	1885.807	.266	9.245
52	31	5395.20	.3630	1988.022	5380.39	.3622	1948.777		10.275
53	23	5362.40	.3825	2051.227	5354.02	.3812	2040.052		2.545
54	13	5328.25	.3785	2016.679	5321.36	.3785	2014.134		
55	6	4644.12	.1473			.1471			
56	6	4784.67	.1508			.1510			
57	36	5075.08	.3814	1935.946	5068.79	.3815	1933.743		2.203
58	29	5111.90	.3774	1929.558	5102.73	.3780	1928.831		.527
59	27	4800.92	.4029	1934.224	4783.93	.4036	1930.794		3.430
60	22	5047.96	.3853	1945.045	5041.69	.3854	1943.067		1.972
61	41	4824.64	.3849	1856.918	4820.54	.3832	1842.419		14.508
62	27	5175.08	.3736	1934.019	5170.16	.3741	1934.156	.137	
63	30	5089.65	.3825	1945.798	5079.11	.3825	1942.759		3.039
64	28	4912.32	.3890	1910.808	4906.03	.3888	1907.464		5.344
65	27	4962.30	.4023	2001.412	4960.28	.4035	2001.472	.060	
66	34	5268.60	.3983	2098.673	5265.13	.3983	2098.034		9.081
				37,745.557			37,647.873	1.607	96.991

* Continued -- Continued

Loss on melts
Recovery for month
Net loss in gold

1.607
96.991
98.598
32.534
62.900

THE MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, November, 1918.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	96
Bartlett, H.D.	5 das. 4 hrs. 1v.	100	99
Borstadt, G.	---	100	98
Bush, W.M.	1/2 hr. 1v.	100	99
Crary, J.H.	---	100	99
Dardis, W.N.	---	100	98
French, H.W.	---	100	97
Gray, G.B.	2 das. 3 hrs. 1v.	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	97
Hume, F.N.	---	100	93
Lindhard, J.A.	---	100	99
Lundin, A.H.	2 das. 1v.	100	98
Russell, N.A.	---	100	98
Schell, E.P.	1 hr. 1v.	100	98
Smith, E.S.	---	100	98
Spencer, G.N.	1 da. 5-1/2 hrs. 1v.	100	95
St. John, F.	1-1/2 hrs. 1v.	100	100
Stoddard, X.T.	---	100	99
Whitaker, S.R.	---	100	96
Whitehead, H.R.	5 hrs. 1v.	100	98
Metcalf, L.	1 da. 1v.	100	93
Milsom, J.W.	1 da. 1v.		

November
M. & R. Cost Report, ~~December~~, 1913.

REFINERY

Bullion sent to Refinery:		250,060.32	
a. Bullion with charges		26,518.62	
b. " without "		24,915.35	
c. " .992 & over, Gold		97,567.53	
d. Refinery Bullion retreated		24,504.03	493,535.92
e. Mint fine bars, Silver			
.. Production of Fine Gold	180,113.17		
" " " Silver	52,125.85	232,239.02	
3. Cost of operations:			
a. Labor	\$1,690.36		
b. Vacation, H'days	127.81		
c. M. & R. Gen'l	409.26		
d. Crucibles	42.84		
e. Mitts, gloves, aprons	54.94		
f. Chemicals	1.00		
g. Acids	387.02		
h. Fuel oil	209.54		
i. Supplies	148.43		
j. Sweeps cellar	0.00		
k. Repairs -- material	42.61		
l. " labor	122.26		
m. Steam	120.42		
n. Electricity	385.04		
o. Light	16.00		
p. Assay charges	274.86		
Total	<u>\$4,032.39</u>		
New Equipment	83.25		
4. Cost per crude ounce for month		.016125	
5. " " " " " year		.016706	
6. Cost per ounce total operated upon for month		.009520	
7. " " " " " " year		.008691	
8. Gross weight of bullion with charges		250,060.32	
9. Cost of operating Refinery	\$4,032.39		
10. P. & R. Charges collected	10,072.66		
11. Profit on Refinery operations	6,040.27		
12. Average P. & R. Charges collected, per ounce		.040280	

-2-

INGOT ROOM

1. Amount of bullion melted:			
Nickel	360,594.10		
Bronze	74,894.60	435,488.70	
2. Amount of good ingots:			
Nickel	357,943.40		
Bronze	74,860.30	432,803.70	
3. Cost of ingots:			
	Nickel	Bronze	Total
a. Labor	\$312.54	\$78.13	\$390.67
b. M. & R. Gen'l	163.70	40.92	204.62
c. Mitts & Gloves	15.73	3.14	18.87
d. Crucibles	29.54	8.50	68.04
e. Sweeps cellar	0.00	0.00	0.00
f. Supplies	50.51	12.63	63.14
g. Fuel oil	148.33	26.81	175.14
h. Power	13.32	3.33	16.65
i. Steam	26.58	6.64	33.22
j. Light	.80	.20	1.00
k. Repairs	12.23	3.06	15.29
l. Vacation & Holidays	25.20	6.30	31.50
Totals	\$688.48	\$189.66	\$1018.14
4. New Equipment, None			
5. Percentage of good ingots:			
Nickel	99.2		
Bronze	99.1		
6. Average cost of ingots for five months:			
Nickel	.002554		
Bronze	.002576		

Gold and Silver Bullion and Minor Coinage Metal Balances in the Netter and Refiner's hands and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of December, 1913

Mint OF THE UNITED STATES AT Denver

Minor Coinage NICKEL & BRONZE

GOLD

STANDARD OUNCES

TRAY OUNCES

TRAY OUNCES

Dec

Delivered

Received

Delivered

TRAY OUNCES

Dec

Ingot's

Balance

Ingot's

Nickel

Bars, Fine

147 710 982

Bars

31 665.30

Bars, Standard

2 246.020

Bars

1431 570.27

Bars, Unparted

1431 570.27

Bars

1431 570.27

Sweep's

1431 570.27

Balance

1431 570.27

Total

1431 570.27

Total

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Superintendent

Jan 3 1914 Journal of the Superintendent

Refined

408,847.49

631,770.01

1,040,717.61

1,519,073.11

1,519,073.11

Refined

408,847.49

631,770.01

1,040,717.61

1,519,073.11

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Refined

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631,770.01

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1,519,073.11

Gain & Loss in Gold & Silver in Melting GOLD Anode Melts,
Denver Mint, December, 1913.

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
73	6	6074.39	.8391	.1296	5097.229	787.25
74	12	6015.89	.9466	.0319	5694.573	192.20
75	6	6124.90	.8260	.1206	5058.809	739.00
76	7	6437.41	.8106	.1580	5218.347	1017.42
77	8	6462.70	.8454	.1327	5463.627	857.90
78	6	6110.84	.8152	.1518	4981.602	928.01
79	13	6083.30	.9040	.0515	5499.359	313.42
80	7	6268.76	.9244	.0633	5794.757	396.65
81	6	6381.80	.8303	.1524	5298.623	1010.60
82	8	6043.90	.8299	.1544	5016.366	933.26
83	6	6453.81	.8220	.1543	5305.426	995.62
84	6	6205.40	.8480	.1389	5261.900	861.56
85	27	6670.70	.9347	.0530	6234.753	353.71
86	30	6222.45	.8531	.1030	5308.260	640.99
87	27	6284.93	.8626	.1039	5421.238	652.88
88	29	6033.30	.8508	.1183	5133.917	714.20
89	14	6343.30	.8486	.1104	5383.935	700.31
90	16	6684.75	.9062	.0860	6057.897	575.27
91	25	6091.15	.8609	.1260	5244.090	767.60
92	13	6046.50	.8626	.1223	5215.641	739.60
93	8	6732.50	.9055	.0568	6095.941	382.17
131772.88					113786.310	14559.62

SILVER Anode Melts

67	29	5379.50	.3965	.5859	2132.888	3151.54
68	29	5084.70	.3955	.5760	2010.765	2928.72
69	7	5109.80	.3884	.6011	1984.681	3071.63
70	7	5454.83	.3883	.5814	2118.219	3171.73
71	6	4734.40	.3942	.5741	1866.307	2721.05
72 *	6	4945.86	.3907	.5766	1932.384	2851.63
75	29	5079.85	.3911	.5353	1992.116	2719.42
76	34	5077.85	.3866	.5475	1963.057	2780.76
77	31	5306.02	.3963	.5252	2103.153	2726.91
78	43	5001.97	.3901	.5334	1951.310	2668.08
79	29	5433.65	.3949	.5526	2145.426	3002.61
80	21	5023.87	.3875	.5661	1947.083	2844.29
81	27	5128.65	.3940	.5257	2020.906	2696.23
82	15	5056.40	.3903	.5617	1972.151	2836.97
83	32	5397.40	.4079	.5153	2201.571	2731.33
84	31	5414.00	.3900	.5367	2110.955	2905.89
85	10	5368.40	.3777	.5630	2027.399	3022.53
86	9	5345.75	.3768	.5722	2014.465	3058.80
87	7	5460.44	.3930	.5667	2146.119	3094.23
88 *	25	4977.65	.3751	.5344	1867.074	2660.07
91	7	5409.50	.3956	.5178	2139.816	2800.31
92	9	5563.48	.3685	.5320	2049.874	2959.31
114753.97					44697.719	63514.64

* Nos. 73, 74, 89, & 90, Canadian granulations

After Melting					Fine ounces			
Weight	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
5082.77	.8394	.1300	5089.089	788.18		8.140	.91	
5011.04	.9466	.0310	5690.050	186.34		4.523		5.86
5115.21	.8264	.1225	5053.610	749.11		5.199	10.11	
5434.18	.8109	.1590	5217.477	1023.03		.870	5.61	
5459.03	.8458	.1330	5463.048	850.05		.579	1.15	
5105.04	.8150	.1550	4975.608	946.28		5.994	18.27	
5081.03	.9041	.0555	5427.859	337.50		1.500	24.08	
5264.25	.9255	.0650	5797.583	407.18	2.806		10.53	
5379.30	.8307	.1610	5299.285	1027.07	.662		16.47	
5038.96	.8304	.1530	5014.752	923.96		1.634		9.30
5450.63	.8226	.1570	5306.288	1012.75	.862		17.13	
5201.24	.8484	.1360	5261.132	843.37		.768		18.19
5669.51	.9350	.0540	6235.992	360.15	1.239		6.44	
5214.09	.8539	.1030	5306.211	640.05		2.049		.94
5281.45	.8632	.1045	5422.148	656.41	.910		3.53	
5030.01	.8513	.1205	5133.348	726.82		.569	12.42	
5338.08	.8494	.1125	5383.565	713.03		.870	12.72	
5621.98	.9064	.0865	6056.547	577.99		1.350	2.72	
5089.18	.8614	.1280	5245.220	779.42	1.130		11.82	
5022.56	.8629	.1260	5196.867	758.84		18.774	19.24	
5725.32	.9058	.0620	6091.795	416.97		4.146	34.80	
131654.93			113737.454	14733.28	7.609	56.465	207.95	34.29
						7.609	34.29	

Melting loss, Gold
" gain, Silver

Recovery for month
Net gain on Gold

" " " Silver

48.856
163.66
54.040
9.83
5.184

173.49

5375.85	.3967	.5820	2132.600	3128.74		.288		22.80
5079.96	.3954	.5725	2008.616	2908.28		2.149		20.44
5102.92	.3834	.5970	1981.974	3046.44		2.707		25.19
5449.58	.3885	.5815	2117.162	3168.93		1.057		2.80
4731.00	.3945	.5745	1866.380	2717.96	.073			3.09
4937.61	.3910	.5755	1930.606	2841.59		1.778		10.04
5073.76	.3923	.5390	1990.436	2734.76		1.680	15.34	
5072.62	.3869	.5500	1962.597	2789.94		.460	9.18	
5298.04	.3967	.5270	2101.732	2792.07		1.421	5.16	
4995.98	.3904	.5365	1950.431	2680.34		.879	12.26	
5428.34	.3950	.5555	2144.194	3015.44		1.232	12.83	
5017.66	.3874	.5685	1943.841	2852.54		3.242	8.25	
5115.84	.3944	.5280	2017.687	2701.16		3.219	4.93	
5051.19	.3901	.5625	1970.469	2841.29		1.682	4.32	
5388.18	.4080	.5170	2198.377	2785.69		3.194	4.36	
5404.91	.3901	.5385	2108.455	2910.54		2.500	4.65	
5362.78	.3772	.5625	2022.841	3016.56		4.558		5.97
5342.81	.3766	.5750	2012.102	3072.12		2.363	13.32	
5451.29	.3901	.5717	2126.548	3116.50		19.571	22.27	
4967.79	.3755	.5375	1865.405	2670.19		1.669	10.12	
5401.01	.3958	.5190	2138.076	2803.59		1.740	2.68	
5542.84	.3891	.5315	2045.862	2946.02		4.012		13.29
114592.86			44636.391	63540.69	.073	61.401	129.67	103.62
						.073	103.62	

Melting loss, Gold
" gain, Silver

Recovery for Month
Net loss on Gold

" gain " Silver

61.328
26.05
28.890
40.16
32.438

66.21

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, December, 1913.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	96
Bartlett, H.D.	---	100	95
Borstadt, G.	---	100	98
Bush, W.M.	1/2 hr. lv.	100	99
Crary, J.H.	---	100	99
Dardis, W.N.	---	100	98
French, H.W.	2 das. lv.	100	97
Gray, G.B.	2 das. 1 hr.	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	4 das. lv.	100	97
Hume, F.N.	---	100	94
Lindhard, J.A.	---	100	99
Lundin, A.H.	---	100	98
Milson, J.W.	1 day 2 hrs. lv.	100	98
Russell, N.A.	---	100	98
Schell, E.P.	2 das. 1 hr. lv.	100	98
Smith, E.S.	6 das. lv.	100	98
Spencer, G.N.	2 " "	100	98
St. John, F.	1 day. 2 hrs."	100	100
Stoddard, X.T.	1 day leave.	100	99
Whitaker, S.R.	---	100	97
Whitehead, H.R.	---	100	99
Metcalf I.D. (detailed)	1 day leave	100	95

REFINERY

1. Bullion sent to Refinery:		
a. Bullion with charges	176,341.59	
b. " without "	27,398.05	
c. " .992 & over, Gold	10,093.06	
Silver	559.62	
d. " Refinery -- retreated	105,071.30	
e. Mint fine silver bars	30,103.10	Total 349,566.72
2. Production: Fine Gold	159,341.78	
" Silver	82,313.65	242,255.43
3. Cost of operations:		
a. Labor	\$1,754.82	
b. Vacation & H'days	121.97	
c. M. & R. Gen'l	405.84	
d. Crucibles	50.80	
e. Mitts, Gloves, & Aprons	88.02	
f. Chemicals	0.00	
g. Acids	616.60	
h. Fuel oil	120.90	
i. Supplies	331.18	
j. Sweeps cellar	0.00	
k. Repairs -- Material	15.28	
l. " Labor	123.99	
m. Steam	101.75	
n. Electricity	422.86	
o. Light	15.00	
p. Assay charges	237.55	
	Total	\$4,406.36
New Equipment	\$29.00	
4. Cost per crude ounce for month		.024987
5. " " " " " year		.018845
6. " " ounce operated on for month		.012605
7. " " " " " " year		.009725
8. Gross weight of bullion with charges	176,341.59	
9. Cost of operating Refinery	\$4,406.36	
10. P. & R. Charges collected	7,106.06	
11. Profit on running operations	2,699.70	
12. Average per ounce P. & R. Charges collected		.040297

INGOT ROOM

1. Amount of Bullion melted:	Gold	66,125.87		
	Silver	580,177.75	646,303.62	
2. Amount of good ingots:				
Double Eagles		63,765.70		
Quarters		572,455.85	636,221.55	
3. Cost of Ingots	Gold	Silver		Total
a. Labor	\$34.94	\$413.99		\$448.93
b. M. & R. Gen'l	25.81	177.01		202.82
c. Mitts & Gloves	0.00	9.30		9.30
d. Crucibles	0.00	0.00		0.00
e. Sweeps cellar	0.00	0.00		0.00
f. Supplies	6.59	11.68		18.27
g. Fuel oil	3.67	67.60		76.27
h. Power	1.86	14.84		16.70
i. Steam	4.52	36.18		40.70
j. Light	.22	1.78		2.00
k. Repairs	2.08	16.63		18.71
l. Vacation & H'days	0.00	37.86		37.86
m. Alloy copper	2.17	395.17		397.34
Totals	\$36.86	\$1182.04		\$1268.90
4. New equipment				\$20.81
5. Percentage of good ingots,	Gold	.964		
	Silver	.986		
6. Average cost of ingots for six months:	Gold	.001362		
	Silver	.002064		
	Nickel	.002554		
	Bronze	.002576		

THE MINT OF THE UNITED STATES AT DENVER
MELTER AND REFINER DEPARTMENT

NETTER AND REFINERS BALANCES

Mint OF THE UNITED STATES AT Denver Colo.

of the Mint by him during the month of January 1874.

Minor Coinage

TAKE OFFICE

Dec

TAKE OFFICE

Dec

*

1746 051 148

85 056 269

5 036 331

19 794 814

Re dep.

U.S. S. & C. Co.
Good gold

92 579
72 563

1856 103 704

* Refused
Unrefined
1655.630.716

X

1040 717 61

10 341 18

42 404 06

12 063 71

103 403 85

130 04

100 00

402 236 54

U.S. S. & C. Co.
Good gold
Good silver

1611 396 99

X Refused
Unrefined

408.837.57

631.850.02

Jan 31 0 1089 473 20

1611 396 99

Refused Mint

Unrefined

Good S. & C.

Unrefined

Feb 2

See Circulation

City

35 183 826

264 445 947

1399 904 97

14 128 30

22 078 70

Jan 31 1556 473 931

1856 103 704

Refused
Unrefined

48 330 648

1518 143 383

1414 033 27

Jan 31 *

1391 954 57

* No mint on hand

521 923 79

Balance

Jan 31 *

1414 033 27

Gain & Loss in GOLD & SILVER in melting GOLD Anode melts,

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
94	6	6765.60	.8137	.1650	5504.933	1116.20
5	6	6660.11	.8217	.1550	5472.683	1032.75
6	6	6657.99	.8212	.1367	5467.841	904.88
7	6	6574.82	.8453	.1223	5557.602	607.87
8	16	6332.36	.8490	.1299	5375.817	822.32
9	9	6433.37	.8358	.1366	5418.739	885.33
100	5	6211.27	.8344	.1342	5182.901	833.67
1	6	6387.81	.8425	.1217	5381.802	777.53
2	17	6138.64	.9432	.0411	5792.930	252.54
3	13	6091.00	.8498	.1365	5175.856	831.48
4	6	6289.83	.8333	.1487	5241.678	935.05
5	6	6377.12	.8215	.1657	5232.755	1053.52
6	8	6864.95	.8294	.1550	5693.973	1064.44
7	7	6104.44	.8249	.1474	5035.619	899.29
8	7	6846.12	.8303	.1370	5684.390	938.32
9	7	6695.77	.8415	.1362	5634.303	912.21
110	7	6233.08	.8587	.1210	5352.284	753.67
1	7	6824.46	.9431	.0365	6436.117	249.36
2	6	6783.55	.8120	.1603	5502.032	1087.27
3	6	6382.67	.8110	.1575	5176.669	1005.70
4	6	6365.17	.8535	.1312	5432.971	835.10
5	6	6396.38	.8614	.1196	5510.251	765.17
6	6	6846.15	.8278	.1482	5666.957	1014.98
7	6	6541.13	.8306	.1482	5433.259	969.44
8	5	6149.91	.8203	.1626	5044.837	1000.41
9	6	6452.29	.8389	.1416	5412.784	913.97
120	15	6325.51	.9168	.0581	5799.406	367.66
1	6	6008.70	.8146	.1670	4894.751	1005.50
2	6	6342.07	.8173	.1414	5183.134	896.87
3	8	6462.49	.8274	.1566	5347.134	1012.08
4	6	6247.48	.8152	.1650	5093.289	1031.16
5	11	6038.84	.9213	.0593	5556.617	358.00
		205881.08			173709314	27330.64

January, 1914.

Weight	After Melting				Fine ounces			
	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
6762.46	.8138	.1650	5503.290	1115.81		1.643		.39
6659.08	.8219	.1540	5473.098	1025.50	.415			7.25
6654.15	.8215	.1565	5466.384	908.29		1.457	3.41	
6568.76	.8457	.1250	5555.200	821.10		2.402	17.23	
6329.96	.8489	.1330	5373.503	841.82		2.314	19.56	
6432.23	.8360	.1390	5419.144	901.93	.405		15.70	
6207.08	.8349	.1380	5182.291	856.53		.610	22.91	
6585.54	.8428	.1220	5380.048	778.79		1.754	1.26	
6135.68	.9439	.0450	5791.468	276.11		2.462	23.57	
6085.94	.8504	.1355	5175.483	824.64		.373		6.64
6287.08	.8337	.1535	5241.539	965.07		.139	30.02	
6373.31	.8218	.1670	5237.586	1084.34		1.169	8.82	
6863.35	.8292	.1570	5695.203	1077.55	1.235		13.11	
6100.40	.8252	.1420	5034.050	902.86		1.569	2.97	
6843.21	.8304	.1380	5682.602	944.36		1.788	6.04	
6691.37	.8417	.1370	5632.126	916.72		2.177	4.51	
6227.70	.8589	.1250	5348.972	772.46		3.312	24.79	
6816.05	.9436	.0435	6431.625	296.50		4.492	47.14	
6781.69	.8123	.1665	5508.767	1129.15	.735		41.88	
6378.58	.8114	.1590	5175.580	1014.19		1.089	8.49	
6362.07	.8536	.1370	5430.663	871.60		2.308	36.50	
6393.77	.8616	.1200	5508.872	767.25		1.379	2.09	
6844.90	.8279	.1510	5666.893	1033.58		.064	18.60	
6539.11	.8300	.1515	5433.346	990.68	.087		21.24	
6146.98	.8203	.1645	5042.368	1011.18		2.469	10.77	
6451.37	.8389	.1450	5412.054	935.45		.730	21.48	
6323.29	.9166	.0660	5795.928	417.34		3.478	49.68	
6006.98	.8147	.1680	4893.837	1009.17		.864	5.37	
6339.87	.8176	.1410	5183.478	893.92	.344			2.95
6460.43	.8276	.1565	5346.652	1011.06		.482		1.02
6243.70	.8152	.1650	5089.864	1030.21		3.425		.95
6038.15	.9215	.0655	5564.155	395.50	7.538		37.50	
205782.24			173676.124	27805.87	10.759	43.949	494.83	19.40
						10.759	19.40	
						33.190		
							475.23	
						39.293	7.51	
						6.103		
							482.74	

Melting loss - Gold
 " gain - Silver
 Recovery for month
 Net gain on Gold
 " " " silver

Gain & Loss in GOLD & SILVER in Melting SILVER Anode melts

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
93	32	5476.19	.3908	.5176	2140.208	2834.20
4	26	5508.05	.3877	.5099	2133.510	2808.91
5	26	5178.05	.3741	.5332	1937.039	2760.95
6	21	5082.17	.4036	.5025	2051.277	2653.53
7	7	5173.00	.4052	.5055	2096.227	2615.12
8	8	5175.76	.3932	.5182	1983.392	2681.98
9	8	5482.16	.3842	.5408	2105.929	2964.63
100	7	5554.90	.3683	.5276	2045.564	2930.63
1	28	5427.24	.3868	.5443	2099.330	2954.14
2	21	5229.36	.3954	.5308	2067.976	2775.84
3	18	5661.84	.3810	.5258	2156.976	2976.80
4	8	5576.64	.3961	.5173	2208.674	2884.72
5	24	5415.87	.3846	.5391	2083.077	2914.41
6	13	5489.70	.3964	.5397	2176.461	2962.95
7	25	5401.61	.3917	.5194	2115.600	2805.78
8	14	5276.80	.3943	.5208	2080.839	2748.06
111	24	5617.87	.3833	.5562	2153.344	3124.54
2	18	5571.37	.3937	.5365	2193.667	2988.84
3	26	5552.62	.3977	.5257	2208.277	2918.82
4	21	5691.90	.4072	.5271	2317.695	3000.94
5	25	5515.97	.3755	.5643	2071.665	3112.82
6	17	5165.60	.3999	.5417	2065.729	2793.47
7	16	5485.11	.3742	.5618	2052.406	3061.40
8	21	5690.71	.3878	.5535	2207.018	3149.82
9	15	5608.17	.4040	.5247	2265.877	2942.35
120	13	5668.43	.3872	.5505	2194.602	3128.66
1	10	5652.93	.3878	.5201	2192.435	2940.12
2	11	5760.11	.3694	.5236	2127.676	3015.94
5	19	5340.57	.3867	.5149	2065.192	2749.77
6	18	5466.72	.3863	.5173	2112.042	2828.12
7	22	5415.20	.3969	.5164	2149.110	2796.59
8	10	5468.96	.3845	.5224	2102.665	2856.75
9	32	5156.07	.3888	.5363	2004.596	2765.28
130	29	5175.35	.3891	.5389	2013.822	2782.95
		219108.00			71979.857	98149.24

* Nos. 109, 110, 123, 124 - Canadian granulations

* Melt 107 - 1/2 of this melt was refining & experimental.

January, 1914

Weight	After Melting				Fine ounces			
	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
5468.03	.3908	.5175	2136.906	2829.71		3.302		4.49
5495.50	.3878	.5105	2131.155	2805.45		2.355		.46
5172.42	.3742	.5340	1935.520	2762.07		1.519	1.12	
5072.89	.4037	.5025	2047.926	2549.13		3.351		4.45
5164.81	.4055	.5105	2094.330	2636.64		1.297	21.46	
5162.68	.3833	.5145	1981.155	2659.29		2.237		22.69
5471.62	.3847	.5450	2104.932	2982.03		.997	17.40	
5545.34	.3887	.5310	2044.567	2944.58		.997	13.95	
5418.96	.3870	.5505	2097.138	2983.14		2.192	29.00	
5223.43	.3962	.5355	2069.523	2797.15	1.547		21.31	
5649.68	.3819	.5320	2157.613	3005.63	.637		28.83	
5541.77	.3964	.5210	2196.758	2887.26		11.916	2.54	
5407.84	.3888	.5370	2102.568	2904.01	19.491			10.40
5473.55	.3965	.5435	2170.263	2974.87		6.198	11.92	
5393.77	.3919	.5230	2113.818	2820.94		1.782	15.16	
5266.35	.3943	.5235	2076.522	2756.93		4.317	8.97	
5612.47	.3836	.5590	2152.943	3137.27		.401	12.83	
5565.71	.3940	.5390	2192.890	2999.92		.777	11.08	
5548.58	.3981	.5280	2208.990	2929.65	.613		10.83	
5685.17	.4072	.5320	2315.001	3024.51		2.694	24.27	
5513.98	.3756	.5860	2071.051	3120.91		.614	8.09	
5157.56	.3999	.5430	2062.508	2800.56		3.221	2.09	
5472.24	.3709	.5865	2031.879	3103.42		20.527	22.02	
5685.63	.3880	.5615	2206.024	3192.48		.994	42.66	
5004.52	.4048	.5330	2268.710	2987.21	2.833		44.86	
5662.73	.3878	.5555	2196.007	3145.65	1.405		24.99	
5637.68	.3838	.5250	2191.930	2959.78		.505	19.66	
5744.28	.3706	.5265	2129.090	3024.73	1.454		6.79	
5334.50	.3865	.5145	2061.784	2744.60		3.408		5.17
5460.08	.3863	.5190	2109.229	2833.78		2.813	5.66	
5408.20	.3971	.5205	2147.596	2814.97		1.514	18.38	
5463.37	.3848	.5230	2102.305	2857.34		.360	.59	
5151.81	.3893	.5410	2005.600	2787.13	1.004		21.85	
5161.87	.3897	.5445	2011.581	2810.64		2.241	21.69	
218811.72			71925.712	98537.48	28.984	85.129	471.90	47.66
						28.984	47.66	

Melting loss - Gold
 " gain - Silver
 recovery for month
 Net loss on gold
 " gain " silver

54.145
 424.24
 46.727
 62.27
 7.418
 486.51

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, January, 1914. *Sum*

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	98
Bartlett, H.D.	3 hrs. lv.	100	99
Borstadt, G.	1/2 hr. "	100	98
Bush, W.M.	1/2 " "	100	99
Crary, J.H.	1 day sick	100	99
Dardis, W.N.	2 hrs. lv.	100	98
French, H.W.	---	100	97
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	1 day lv.	100	98
Hume, F.N.	---	100	95
Lindhard, J.A.	---	100	99
Lundin A.H.	---	100	98
Milson, J.W.	---	100	93
Perry, R.J.	---	100	92
Presnell, J.H.	1/2 hr. lv.	100	98
Russell, N.A.	---	100	98
Schell, E.P.	4 hrs. lv.	100	98
Spencer, G.N.	2 das. sick		
" "	3 hrs. lv.	100	98
St. John, F.	4-1/2 hrs. lv.	100	100
Stoddard, X.T.	---	100	99
Whitaker, S.R.	1 day 3 hrs. lv.	100	98
Whitehead, H.R.	---	100	99

REFINERY

Cost report Jan/14

1. Bullion sent to Refinery:		
a. Bullion with charges	341,699.89	
b. " without "	5,087.16	
c. " .992 & over, Gold	9,588.50	
" " " Silver	1,191.45	
d. Ref'y bullion retreated	150,981.16	
e. Mint fine silver bars	14,725.25	523,273.41
2. Production: Fine Gold	204,071.26	
" Silver	88,015.70	292,086.96
3. Cost of operations:		
a. Labor	\$1,760.05	
b. Vacation & Holidays	83.73	
c. M. & R. Gen'l	425.35	
d. Crucibles	51.00	
e. Mitts, gloves, aprons	83.75	
f. Chemicals	11.65	
g. Acids	605.09	
h. Fuel oil	171.35	
i. Supplies	140.43	
j. Sweeps cellar	0.00	
k. Repairs -- material	184.91	
l. " labor	145.06	
m. Steam	70.82	
n. Electricity	368.37	
o. Light	8.50	
p. Assay charges	263.55	
Total	\$4,373.96	
New Equipment - None		
4. Cost per crude oz. for month	.012000	
5. " " " " " year	.016829	
6. Cost per oz. total operated upon, month	.008358	
7. " " " " " year	.009338	
8. Gross wt. of bullion with charges	341,699.89	
9. Cost of operating Refinery	\$4,373.96	
10. P. & R. Charges collected	13,280.25	
11. Profit on Refinery operations	8,906.29	
12. Average per oz. P. & R. Charges collected	.038366	

2 Jan.

INGOT ROOM

1. Amount of bullion melted:				
	Silver	626,992.30		
	Nickel	22,537.00	649,529.30	
2. Amount of good ingots:				
	Quarters	547,021.65		
	Dimes	73,111.20		
	Nickels	22,079.70	642,212.55	
3. Cost of ingots:				
	Silver	Nickel	Bronze	Total
a. Labor	\$431.69	\$17.96		\$449.65
b. M. & R. Gen'l	204.80	7.87		212.67
c. Mitts & Gloves	22.62	.48		23.10
d. Crucibles	61.29	7.56		68.85
e. Sweeps cellar	0.00	56.40	56.41	112.81
f. Supplies	49.53	12.56		62.09
g. Fuel oil	111.68	6.83		118.51
h. Power	14.93	.57		15.50
i. Steam	25.48	.98		26.46
j. Light	.50			.50
k. Repairs	8.27	.32		8.59
l. Vacation & H'days	30.08	1.16		31.24
m. Alloy copper	475.75			475.75
Totals	\$1,436.62	112.69	56.41	\$1,605.72
4. New equipment -- None				
5. Percentage of good ingots --				
	Silver	.989		
	Nickel	.979		
6. Average cost of ingots for 7 months:				
	Gold	.001362		
	Silver	.002195		
	Nickel	.002619		
	Bronze	.002609		

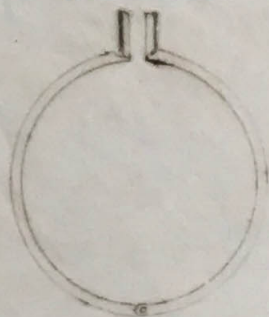
THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

February 20, 1914.

Hon. Thomas Annear,
Superintendent, U. S. Mint,
Denver.

Sir:

Last month we received from the Waterbury-Farrel Foundry and Machine Co., of Waterbury, Conn., a cylinder 15" inside diameter, 22" long, 3 section steel for 20" x 18" hydraulic silver caking press. It cost \$140.00. At the time we ordered that cylinder, over four months ago, we fixed up the old cylinder so that we could use it until the arrival of the new one; and this morning I saw the men were again using the old one, and upon investigation I found that the new one could not be used because the bottom band or ring had broken in two places, as shown by the following sketch:



We used the old cylinder eight years, and it was not broken, only worn badly; so I am of the opinion that the breaking of the new one was from a defect in the said band, and that is corroborated by the machinist who examined it and stated that such was the fact.

I therefore suggest that such steps be taken as may be necessary to have said Waterbury-Farrel F. & M. Co. furnish us a new

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Superintendent - 2

bottom ring or band for said cylinder in place of the aforesaid defective one which we cannot use. Considering the price we paid for said cylinder, this cannot work any hardship on said company, and even if it did, I think they would be quite willing to make good for anything so manifestly defective.

Respectfully,

Joachim

Superintendent Melting & Refining Dept.

MELTING AND REFINING DEPARTMENT BALANCES.

Mint OF THE UNITED STATES AT Denver
Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of February, 1914.

RECEIVED.	GOLD, Fine Ounces.	Dec.	DELIVERED.	GOLD, Fine Ounces.	Dec.	RECEIVED.	NICKEL, Troy Ounces.	Dec.	DELIVERED.	NICKEL, Troy Ounces.	Dec.
Balance						Balance					
contained in Gold Deposits	1556 473 931			196 218 136		Balance					
contained in Silver Deposits	717 68 617					Refd	38,330.548				
contained in Ref. Deposits	5161 634					Unrefd	1518.143.383				
contained in	22 912 051										
Clippings, blanks, etc.											
G. Evelyn. Buo	102 030					Refd	21,006.200				
						Unrefd	1439.193.927				

Total	1656 418 263	Balance	Feb. 28	1460 200 127	Total	1656 418 263	Balance				
RECEIVED.		DELIVERED.					RECEIVED.				
SILVER, Fine Ounces.		SILVER, Fine Ounces.					BRONZE, Troy Ounces.				
Dec.		Dec.					Dec.				

Balance						Balance					
contained in Gold Deposits	1069 473 20			463 095 44		Balance					
contained in Silver Deposits	9979 80					Refd	45,720.90				
contained in Ref. Deposits	41 497 99					Unrefd	321,452.12				
contained in	11 690 30										
Clippings, blanks, etc.	92 791 66										
G. Evelyn. Buo	30 68										
	199 29										
	201 975 33										

Total	1447 638 25	Balance	Feb. 28	984 542 81	Total	1447 638 25	Balance				
		DELIVERED.					RECEIVED.				
							BRONZE, Troy Ounces.				
							Dec.				

Approved: *Superintendent*
Mch 2 1914
Superintendent Melting and Refining.

THE MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, February, 1914.

	Time Lost	Conduct	Workmanship
Arnold R.G.	2 das. lv.	100	97
Bartlett, H.D.	12 das. sick	100	99
Borstadt, G.	1/2 hr. lv.	100	98
Bush, W.M.	---	100	99
Crary, J.H.	4 hrs. lv.	100	99
Dardis, W.N.	---	100	98
French, H.W.	14 das. sick	100	98
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	98
Hume, F.N.	---	100	96
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	99
Milsom, J.W.	---		
Perry, R.J.	---	100	94
Presnell, J.H.	1 day sick	100	93
Russell, N.A.	---	100	98
Schell, E.P.	2 hrs. lv.	100	98
Spencer, G.N.	1 hr. lv.	100	96
St. John, F.	1 hr. lv.	100	100
Stoddard, X.T.	2 hrs. lv.	100	99
Whitaker, S.R.	---	100	98
Whitehead, H.R.	1/2 hr. lv.	100	99

Gain & Loss in GOLD & SILVER in melting GOLD Anode melts,

No. of Melt	No. of Bars	Before Melting				
		Weight	Fineness		Fine Ounces	
			Gold	Silver	Gold	Silver
126	6	6555.38	.8230	.1478	5394.809	969.25
7	6	6686.98	.8122	.1565	5431.098	1046.86
8	6	6534.88	.8152	.1514	5327.078	989.27
9	7	6067.35	.8138	.1567	4937.724	951.06
130	7	5693.91	.9157	.0690	5213.635	392.61
1	6	6632.35	.8362	.1314	5546.247	871.35
2	6	5915.28	.8357	.1355	4943.739	801.70
3	6	6384.28	.8483	.1269	5415.854	810.11
4	6	6804.94	.8228	.1475	5599.548	1003.96
5	7	6695.65	.9281	.0535	6201.146	358.77
6	6	6328.42	.8346	.1488	5281.659	941.68
7	8	6635.05	.8489	.1268	5632.632	841.88
8	6	6158.64	.8211	.1527	5056.979	940.64
9	6	6495.54	.8145	.1666	5290.813	1081.94
140	6	6424.85	.8202	.1477	5269.994	948.80
1	7	6512.36	.8132	.1629	5296.246	1060.42
2	6	6453.84	.8180	.1530	5279.133	989.22
3	7	6631.79	.8236	.1436	5462.262	952.43
4	29	6703.36	.9579	.0300	6420.832	200.52
		122314.85			103001.428	16152.47

SILVER Anodes

131	6	5371.11	.3916	.5105	2103.322	2742.08
2 *	7	5643.77	.3891	.5115	2196.027	2886.54
4	15	5520.77	.3953	.5383	2182.073	2972.06
5	15	5675.91	.3907	.5179	2217.604	2938.99
6	17	5735.85	.3800	.5338	2179.737	3061.79
7	14	5747.24	.3970	.5378	2281.491	3090.91
8	19	5632.46	.3643	.5770	2051.785	3250.35
9	19	5753.00	.3978	.5446	2288.536	3132.98
140	15	5671.49	.3745	.5810	2124.018	3295.10
1	14	5775.72	.3677	.5656	2123.825	3266.68
2	4	5307.92	.3940	.5110	2091.332	2712.34
3	6	5513.41	.3872	.5343	2134.937	2945.65
4	6	5802.33	.3617	.5700	2098.708	3307.61
5	7	5338.29	.3867	.5260	2064.378	2808.10
6	7	5733.34	.3825	.5271	2190.485	3022.19
7	5	5631.55	.3848	.5282	2167.247	2974.71
8	6	5514.37	.3947	.4958	2176.402	2733.78
9	7	5508.80	.3688	.5383	2031.506	2965.38
150	7	5549.78	.3779	.5335	2097.496	2960.96
1 *	8	5605.76	.3730	.5276	2090.864	2957.60
3	26	5414.07	.3876	.5207	2098.346	2819.37
4	6	5510.89	.3865	.5180	2129.955	2854.79
5	11	5834.87	.3766	.5096	2197.350	2973.41
6 *	9	5695.23	.3811	.5152	2170.657	2934.09
8	7	5571.00	.3917	.5135	2181.891	2860.48
9	7	5731.63	.3582	.5553	2053.386	3182.63
160	12	5464.20	.3809	.5362	2081.240	2929.52
1	7	5544.81	.3612	.5383	2003.023	2984.70
2	30	5256.46	.3778	.5321	1986.103	2796.91
		162056.03			61793.723	86361.70

* Canadian granulations, Nos. 133, 152, 157

Denver Mint, February, 1914.

Weight	After Melting				Fine ounces			
	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
6554.55	.8230	.1495	5394.394	979.90		.415	10.65	
6682.35	.8123	.1570	5428.072	1049.12		3.026	2.26	
6532.26	.8152	.1545	5325.098	1009.23		1.980	19.96	
6065.54	.8139	.1630	4936.743	988.68		.981	37.62	
5691.36	.9152	.0755	5208.732	429.69		4.903	37.08	
6628.88	.8366	.1350	5545.721	894.89		.526	23.54	
5913.00	.8360	.1340	4943.268	792.34		.471		9.36
6383.01	.8482	.1245	5414.069	794.68		1.785		15.43
6799.40	.8233	.1535	5597.946	1043.70		1.602	39.74	
6693.85	.9262	.0550	6199.843	368.16		1.303	9.39	
6324.72	.8349	.1510	5280.508	955.03		1.151	13.35	
6633.77	.8491	.1290	5632.734	855.75	.102		13.87	
6155.11	.8213	.1530	5055.191	941.73		1.788	1.09	
6491.27	.8149	.1645	5289.735	1067.81		1.078		14.13
6419.71	.8202	.1485	5265.446	953.32		4.548	4.52	
6508.11	.8132	.1640	5292.395	1067.33		3.851	6.91	
6451.33	.8180	.1540	5277.187	993.50		1.946	4.28	
6627.22	.8239	.1445	5460.166	957.63		2.096	5.20	
6702.29	.9579	.0330	6420.123	221.17		.709	20.65	
122257.73			102967.371	16363.66	.102	34.159	250.11	38.92
						.102	38.92	
						34.057		
							211.19	
						19.555	4.30	
						14.502		
							215.49	

Melting loss -- Gold
 " gain -- Silver
 Recovery for month
 Net loss on gold
 " gain on silver

5365.23	.3915	.5135	2100.487	2755.04		2.835	12.96	
5637.39	.3896	.5150	2196.327	2903.25	.300		16.71	
5514.42	.3950	.5390	2178.195	2972.27		3.878	.21	
5671.50	.3911	.5215	2218.123	2957.68	.519		18.69	
5726.81	.3806	.5390	2179.623	3086.75		.114	24.96	
5742.29	.3974	.5395	2281.986	3097.96	.495		7.05	
5626.85	.3642	.5805	2049.298	3266.38		2.487	16.03	
5748.18	.3978	.5490	2286.626	3155.75		1.909	22.77	
5665.82	.3749	.5860	2124.115	3320.17	.097		25.07	
5709.58	.3681	.5700	2123.782	3288.66		.043	21.98	
5299.78	.3942	.5135	2089.173	2721.43		2.159	9.09	
5504.50	.3877	.5360	2134.094	2950.41		.843	4.76	
5794.85	.3618	.5695	2096.576	3300.16		2.132		7.45
5328.30	.3872	.5270	2063.117	2808.01		1.261		.09
5727.39	.3826	.5275	2191.299	3021.19	.814			1.00
5602.53	.3856	.5310	2160.335	2974.94		6.912	.23	
5512.18	.3946	.4945	2175.106	2725.77		1.296		8.01
5502.55	.3688	.5360	2029.340	2949.36		2.166		16.02
5544.13	.3779	.5390	2095.126	2988.28		2.370	27.32	
5596.07	.3734	.5310	2089.572	2971.51		1.292	13.91	
6407.27	.3877	.5265	2096.398	2846.92		1.948	27.55	
5500.69	.3866	.5205	2126.566	2863.10		3.389	8.31	
5824.71	.3775	.5085	2198.828	2961.86	1.478			11.55
5686.70	.3819	.5160	2171.750	2934.33	1.093		.24	
5560.29	.3928	.5150	2184.081	2863.54	2.190		3.06	
5722.71	.3587	.5565	2052.736	3184.68		.650	2.05	
5453.98	.3822	.5360	2084.511	2923.33	3.271			6.19
5537.98	.3615	.5410	2001.979	2996.04		1.044	11.34	
5250.16	.3784	.5315	1986.660	2790.46	.557			6.45
161824.84			61765.809	86579.23	10.814	38.728	274.29	56.76
						10.814	56.76	
						27.914		

Melting loss -- Gold
 " gain -- Silver
 Recovery for month
 Net gain on Gold
 " " " Silver

217.53
 40.698
 12.784
 274.97

Cost Report, M. & R. Dept., Feb., 1914.

REFINERY

1. Bullion sent to Refinery:		
a. Bullion with Charges	284,098.79	
b. " without "	12,743.93	
c. " .992 & Over, Gold	8,450.47	
" " " Silver	509.51	
d. Refinery bullion retreated	153,849.04	
e. Mint fine silver bars	5,422.90	465,074.64
2. Production: Fine Gold	188,050.36	
" Silver	94,430.87	
3. Cost of operations:		
a. Labor	\$1,484.41	
b. Vacation & H'days	184.76	
c. M. & R. Gen'l	413.27	
d. Crucibles	51.00	
e. Mitts, gloves & aprons	68.32	
f. Chemicals	0.00	
g. Acids	606.98	
h. Fuel oil	151.04	
i. Supplies	305.67	
j. Sweeps cellar	0.00	
k. Repairs -- material	37.51	
l. " labor	136.27	
m. Steam	87.66	
n. Electricity	323.66	
o. Light	8.00	
p. Assay charges	304.15	
Total	\$4,162.70	
New Equipment -- None		
4. Cost per crude oz. for month		
5. " " " " " year		.014652
6. " " oz. total operated upon for month		.016356
7. " " " " " " year		.008950
		.009260
8. Gross wt. of bullion with charges	284,098.79	
9. Cost of operating Refinery	\$4,162.70	
10. P. & R. Charges collected	10,503.20	
11. Profit on Refinery operations	6,340.50	
12. Average per ounce P. & R. Charges collected		.036970

INGOT ROOM

1. Amount of bullion melted: Silver	481,192.15			
2. Amount of good ingots: Dimes	469,870.55			
3. Cost of ingots:	Silver	Nickel	Bronze	Total
a. Labor	\$339.35	\$22.90	\$9.00	\$371.25
b. M. & R. Gen'l	206.63			206.63
c. Mitts & Gloves	0.00			0.00
d. Crucibles	58.55	10.20		68.75
e. Sweeps cellar		118.50		118.50
f. Supplies	38.69	11.68		50.37
g. Fuel oil	83.92	13.70	7.54	105.16
h. Power	15.12			15.12
i. Steam	31.65			31.65
j. Light	1.00			1.00
k. Repairs	23.61			23.61
l. Vacation & H'das	26.17			26.17
m. Alloy copper	350.14			350.14
Totals	\$1,174.83	\$176.98	\$16.54	\$1,368.35
4. New Equipment -- None				
5. Percentage of good ingots	97.6			
6. Average cost of ingots for 8 months:	Gold	.001362		
	Silver	.002282		
	Nickel	.002822		
	Bronze	.002619		

March 7, 1914.

Mr. R. Office

Furniture &c

March 20

- 3 Bell top desks
 1 Table
 1 Bed
 4 Revolving desk chairs
 1 Office chair
 1 Revolving stool
 2 Waste baskets
 2 Cyphers
 1 Safe, with desk top
 1 Millionaire Calculating machine
 1 Oliver typewriter, case, & equipment
 1 Krag rifle & rack
 1 Letter press, bath & stand
 1 24 drawer cabinet
 5 automatic ink wells
 5 ordinary " "
 5 cups & sponges
 3 file sheets
 4 ink erasers
 4 paper weight
 1 2-compartment steel wardrobe
 1 mirror & towel rack
 2 lamps & electrical connections
 1 dictionary & stand
 1 Bates numbering machine
 1 Jupiter pencil pointer
 1 Hotchkiss stapling machine
 3 stamping pads
 3 pen racks
 1 Copy holder for typewriter
 2 desk boxes
 1 Colt's revolver
 1 Coffee mill (for grinding platinum sponge)
 1 feather duster
 1 Extension writing board
 10 clip boards
 1 oil can
 11 Volume 1 reports, works on metallurgy, &c
 2 granite drinking cups
 2 hard rubber rulers
 1 electrical clock

8 Rockwell Furnaces.		
8 Hods for " Short iron		
2 Pouring gads		
1 Toppot		
1 Filing brush		
2 Rusting "		
5 Pouring "		
28 Double Eagle Moulds	2 bit	
14 Single "	1 "	
54 Half "	3 "	
56 1/4 " Dollar	4 "	
54 1/4 "	3 "	
36 Dime	2 "	
56 Nickel	4 "	
50 Penny	4 " 2 Extra	
27 Short		
2 250 Ounce		
1 700 "		
1 1000 "		
4 Corn	12"	
1 "	8"	
1 "	6"	
3 1/2 crucible Tonges		
6 " Pouring "		
7 " " For Gold Bars		
2 " Ring " Silver "		
4 " " Lifting grates		
7 " Copper " Longets		
3 " " Lining Gold		
5 " " Shinking		
1 " " Scr		
4 Charcoal Pans		
6 Slag "		
12 Skimming "		
7 Small Copper " Boiling		
1 Ripping Ladle		
7 Short iron Scoops		
10 Spoon palkers		
3 Waste cans		
3 Copper pans for grease		
1300 sq ft floor gratings		
6 Spoon Buckets		
10 Silver Stirrers		
1 Stamping bench		
1 bit Steel Figures		

202

- 1 Roll Top desk
- 2 Chairs
- 1 Locker case
- 1 Work bench
- 1 Vise
- 12 Copper assay cups
- 1 Case for " " case
- 1 Dratton Cooler
- 1 Stand for Longate short Copper top
- 2 Set pickling tanks Lead lined
- 2 Pickling vats Copper
- 4 Copper pans for pickling tubs
- 2 Banding presses for clippings
- 2 Benchweld " " axes
- 1 Small truck short Copper top
- 1 Cornhead crane track 2 trawlers
- 1 100lb chain block
- 3 Trowels
- 1 Sledge Hammer
- 6 Haul " "
- 4 Pickers " "
- 2 Monkey wrenches 14"
- 1 Stilson " 10"
- 2 Screw drivers
- 4 Cold chisels
- 4 Crissible scrapers
- 3 Crow bars
- 2 Small oil cans
- 3 Electric fans
- 1 Extension light
- 1 Flux bin
- 2 Box screws 20" + 24
- 1 Round " 18" dia
- 1 Pa Calipers 6"
- 1 " Extension drivers 7"
- 2 " Pliers
- 1 Magnet 6"
- 2 Window sticks
- 1 Short handle shovel
- 1 pr Auger screws for holding moulds 4 1/2 feet
- 1 " " " drying swags 4 "
- 1 " flat " " 8 "
- 1 " Shovels
- 1 2 foot square
- 1 Mirror 12" + 20"
- 1 Block board for built rods

OF THE UNITED STATES AT *Denver*

RECEIVED.		DELIVERED.		RECEIVED.		DELIVERED.	
SILVER, Fine Ounces.	Dec.	SILVER, Fine Ounces.	Dec.	SILVER, Fine Ounces.	Dec.	BRONZE, Troy Ounces.	Dec.
1557 796 344							
Total		Total		Total		Total	
Balance		Balance		Balance		Balance	
766.31 *		1399 445 687		526 530 22			

Approved: _____, Superintendent.

 Apr 1, 1914
 _____, Superintendent Melting and Refining

THE MINT OF THE UNITED STATES AT DENVER,

MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, March, 1914. *Sum*

	Time Lost	Conduct	Workmanship
Arnold, R.C.	---	100	98
Bartlett, H.D.	---	100	98
Borstadt, G.	1 day sick	100	98
Bush, W.M.	---	100	99
Crary, J.H.	2-1/2 hrs. lv.	100	98
Dardis, W.N.	3 hrs. lv.	100	98
French, H.W.	---	100	98
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	98
Hume, F.M.	---	100	98
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	99
Milson, J.W.	---	100	98
Perry, R.J.	---	100	95
Presnell, J.H.	2-1/2 hrs. lv.	100	98
Russell, N.A.	---	100	98
Schell, E.P.	1/2 hr. lv.	100	97
Spencer, G.N.	2 hrs. lv.	100	100
St. John, F.	1 day, 1/2 hr. lv.	100	99
Stoddard, X.T.	2 hrs. lv.	100	98
Whitaker, S.R.	1 day sick	100	99
Whitehead, H.R.	---	100	

REFINERY

1. Bullion sent to Refinery:	279,272.19	
a. Bullion with charges	521.63	
b. " without "	7,136.93	
c. " .992 & over, Gold	2,041.94	
" " " " Silver	133,567.42	
d. Refinery bullion retreated	7,157.85	429,697.96
e. Mint fine silver bars		
	<hr/>	
2. Production: Fine Gold	224,290.33	
" Silver	74,156.30	298,446.63
	<hr/>	
3. Cost of operations:	\$1,808.68	
a. Labor	19.10	
b. Vacation & H'days	432.21	
c. M. & R. Gen'l	53.55	
d. Crucibles	88.50	
e. Mitts, gloves, and aprons	2.93	
f. Gas	630.82	
g. Acids	179.50	
h. Fuel oil	132.17	
i. Supplies	274.94	
j. Sweeps cellar	25.46	
k. Repairs -- material	104.90	
l. " labor	89.04	
m. Steam	342.33	
n. Electricity	9.00	
o. Light	303.59	
p. Assay charges		
	<hr/>	
Total	\$4,496.72	
New Equipment, None		
4. Cost per crude ounce for month	.016101	
5. " " " " " year	.016311	
6. Cost per ounce total operated for month	.010464	
7. " " " " " " year	.009449	
8. Gross weight of bullion with charges	279,272.19	
9. Cost of operating Refinery	\$4,496.72	
10. P. & R. Charges collected	10,926.07	
11. Profit on Refinery operations	6,429.35	
12. Average per ounce P. & R. Charges collected	.039123	

INGOT ROOM

1. Amount of bullion melted, Silver	457,401.60	
2. Amount of good ingots: Quarters	137,454.60	
Dimes	310,249.40	447,704.00
3. Cost of Ingots:		
a. Labor	\$359.19	
b. M. & R. Gen'l	216.10	
c. Mitts & Gloves	9.30	
d. Crucibles	0.00	
e. Sweeps cellar	15.47	
f. Supplies	27.26	
g. Fuel oil	98.06	
h. Power	16.38	
i. Steam	28.06	
j. Light	0.00	
k. Repairs	25.37	
l. Vacation & H'days	1.98	
m. Alloy copper	272.12	
Total	\$1,069.29	
4. New equipment, none		
5. Percentage of good ingots,	97.8	
6. Average cost of ingots for 9 months:		
Gold	.001362	
Silver	.002304	
Nickel	.002822	
Bronze	.002617	
7. Cost distributed: Quarters	\$328.27	
Dimes	741.02	
	\$1,069.29	

Refinery Invoice

Motor Generator Room

- 2 Direct Current Motor-Generators
- 1 " " " Experimented
- 1 " " " Alternating
- 1 " " " Regulator Transformer
- 2 Direct current frame
- 1 Alternating " " "
- 1 Dzel Pump 5 horse power D.C. Motor attached
- 5 and Switch Board Complete
- 1 Weston Direct Reading Laboratory Standard Voltmeter
- 1 " " Alternating Current 100 Ampere Ammeter
- 1 Quench & Lamp Microscope Complete (To store room)
- 1 Laboratory Bellows
- 1 Weston Direct Reading Ammeter = 8120 (To store room)
- 1 Kier & Schmidt Pyrometer "Thermocouple running" (To store room)

- "Platinum Ware" 1 Boat
- " " 1 Boat Perforated
- " " 1-3" Dish
- " " 1-4 1/4" "
- " " 1-4" "
- " " 1-2" Cone Perforated
- " " 1-1" "
- " " 1 Spatula
- " " 1 Crucible 1 1/4" x 1 3/8" Perforated Bottom
- " " 1 " 1 1/4" x 1 1/2"
- " " 1 " 1 3/4" x 2"
- " " 1 " 1" x 1 1/4"
- " " 2 Cylinders
- " " 1 Dish 1 7/8" x 1"
- " " 1 " 1 1/6" x 1 5/16"
- " " 1 Parting Apparatus Complete
- " " 1 Limber 15" x 15 1/8"
- " " 3 Wire Strippers

- 1 Ream 18" x 18" Filter Paper
- 1 Cabinet with shelves 22" x 26" x 63"
- 1 Book Case 11" x 26" x 38"
- 1 Roll Top Desk
- 1 Tromper Analytical Balance with Milligram weights
- 1 " " Tully Balance with Troy ten weights
- 1 Spray Balance with Gold and Milligram weights

- 2 Trucks for Filter 26" x 3'-6"
- 6 " " " " 19" x 31"
- 1 Lead lined tank for Gold Cells 16" x 3'-7" x 25'
- 1 " " " " " " " "
- 14 Windows for Gold Cell Hood 28" x 4' 4"
- 2 Lead lined tank for Silver Cells 14 1/2" x 32" x 18"
- 1 " " " " " " " " Chloride reduction 6' x 2' 6" x 13 1/2"
- 1 Wooden Filter for Chloride washing 22 1/2" x 3'-7" x 2'
- 1 Wooden Filter Lead lined 2' x 22" x 3'-6"
- 1 " " " " " " " " " "
- 1 " Tank Lead lined 7' x 14" x 30" for Silver Nitrate Hood
- 1 Gold-hook benches for silver cells
- 1 " " " " " " " " gold " "
- 1 Back-saw frame
- 1 - 1 1/2" open ended wrench for hydraulic press
- 1 - Cold chisel
- 1 - 3/4" open ended wrench for hydraulic press
- 1 - 16" screw driver
- 1 - Claw hammer
- 1 - Cathode Sheet Copper cells
- 2 pa. gas pliers
- 1 - flat head pliers
- 1 - Double open ended wrench 5 1/8"
- 2 - Chimney brushes
- 1 dust pan
- 1 small screw driver
- 4 Copper scoops
- 20' - 1 1/2" hard rubber pipe
- 20 hard rubber pump complete for Gold cells
- 6 " " " " " " " " " " silver cells
- 75' - 1/2" x 1" Copper bar - bar for silver cells
- 40' - 1/2" x 1" " " " " " " " " gold cells
- 52 - ground glass stopper chemical bottles glass
- 59 - glass chemical supply bottles
- 26 - 1/2 gal glass acid bottles
- 1 - Filter paper holder
- 1 - gas plates
- 1 - Laboratory electric motor wheel
- 3 - Bunsen burners
- 2 - Blast burners
- 2 - Wooden test tube holders
- 2 - Small iron tongs
- 1 - Soldering iron
- 2 - Iron Rock Clamps

- 1 - Thin Sintered Rubber cork
- 9 - Piece hard rubber tubing $\frac{1}{2}$ " inside diameter
- 1 - Brass drill
- 1 - Center punch
- 1 - $\frac{3}{16}$ " Tap
- 1 - $\frac{3}{16}$ " Drill
- 1 - Gypsum mortar and pencil
- 1 - Net of screens sintered mesh
- 1 - small gas furnace jacket
- 1 - Sinter mortar and pencil
- 1 - Furnel tube and sintered furnel reducer
- 4 - Wooden furnel stands
- 1 - gas furnace for making
- 3 - Centigrade thermometers
- 1 - Fahrenheit
- 1 - 4" Sinter mortar and pencil
- 2 - Sintered filter cones 1"
- 1 - 2" Porcelain mortar and pestle
- 1 - Porcelain spot plate
- 1 - Porcelain button plate
- 2 - Baume's Acid Hydrometers
- 1 - " Light liquid "
- 1 - Bone sponge
- 3 - Bottle holders
- 46 - Sintered size glass lenses
- 1 - 250 cc glass graduated
- 2 - 1000 cc " "
- 6 - 10 cc Glass Pipettes
- 3 - 1 cc " "
- 1 - 5 cc " "
- 1 - 25 cc " "
- 1 - 100 cc " "
- 46 - 50 cc " Burettes
- 1 - 25 cc " "
- 1 - Small glass syringe
- 1 - Glass funnel with stopper
- 2 - #9 - $6\frac{1}{2}$ " Dia R. B. Caswell
- 6 - 4" " " " "
- 1 - $3\frac{1}{2}$ " " " " "
- 2 - 100 cc glass decanters
- 9 - Sintered size glass funnels
- 2 - 2000 cc glass decanters
- 4 - 1000 cc " "
- 2 - 250 cc " "
- 4 - Large glass water bottles

- 1 - 1000cc Measuring flask
- 4 - glass copper flasks
- 1 - pore graduate
- 2 - Porcelain evaporating dishes
- 3 - Large Glass Precipitating jars
- 1 - " " do
- 5 - Small " "
- 4 - " " water bottles
- 1 - Eye glass
- 1 - Movable switch board for experimental generator
- 1 - Cross cut Carpenter's chisel
- 1 - Glass H₂S Generator
- 1 - Looking Glass (damaged)
- 1 - Cupful tongs
- 3 Pair 4" x 3/4" Glass tubing
- "Milling Room"
- 1 - 12" Monkey wrench
- 1 - 10" "
- 2 Ball joint hammers
- 1 - 12" Vise wrench
- 3 Buck hammers
- 7 Pot picks
- 10 Copper Spray Cans
- 2 Double butt picks
- 1 Spray box
- 1 Tool Box
- 4 10" Steel Chisels
- 6 5" " "
- 3 " " "
- 1 Tool rack
- 1 Brick trowel
- 1 Small " "
- 1 Steel punch
- 1 Set steel number die 1 to 9
- 1 Wooden bench
- 3 - 16" Iron foot scraper
- 2 Flat Chisel buckets
- 1 Iron pit bucket
- 2 Fiber buckets
- 1 Barrel water cooler and stand
- 2 - Iron Ladle
- 6 Iron Pouring tongs
- 10 Bar tongs
- 1 Ring tongs
- 2 Copper bar tongs
- 2 Tank rucks (copper)

- 1 Lead lined cooling tank 3' x 2' x 18"
- 5 Copper sheets for "
- 1 10" Steel bench and frame
- 1 Stirring tongue (iron)
- 5 Sheet iron rods
- 4 Iron frame 6 x 16" x 24"
- 2 16' drop cords complete
- 4 Iron Pouring benches
- 2 Copper cans 18" x 2'
- 1 " " 16' x 20"
- 3 Cast iron cone moulds
- 1 iron Fine Gold tank rack
- 5 Small cone moulds
- 1 Ingot vice
- 3 Iron frame 18 x 12 x 6
- 2 Pit Pulling tongue for #80 ft
- 2 " " " #20 & 30 ft
- 1 Electric Fan
- 1 5 Gallon kerosene oil can
- 2 Octagon steel bars 4'
- 2 Hexagon " 4'
- 1 Wood cabinet 6' x 2' x 4'
- 1 " Flue Box 6' x 4' x 20"
- 1 Electric fan (out of order)
- 4 Iron skimming frame 2' x 11" x 16"
- 4 Fine Silver Moulds
- 8 " Gold ingot Moulds
- 16 Silver Moulds "
- 3 Gold " "
- 4 Fine Gold " "
- 1 " Silver Moulds " center
- 1 Chain block complete with bench
- 1 Furnace Poker
- 4 Bar Moulds
- 1 Iron shelf 5' x 16"
- 2 Wash bars
- 1 2 Roll Chilean mill
- 1 Motor for "
- 1 Starting switch Box for Chilean mill motor
- 6 Fugle iron bench rock 5"
- 5 Iron scoop
- 8 Boiler "
- 3 " frame 8" diameter
- 1 10" Iron shovel
- 5 Copper oil cans
- 1 Iron rock charcoal frame

Dressing Room

3 Working benches
13 Steel clothes lockers

1 Mirror
1 cane lounge damaged

Store Room

7 - 14" R. B. Porcelain evaporating dishes
2 - Copper heating cups

4 - Glass cells 7" x 11" x 8"

12 - Clay pipe triangles

1 - Sheet iron furnace hood

1 - Glass desiccator

24 - Glass beakers assorted sizes

4 - 1 1/2" Glass tubing

1 - Box assorted glass V tubes

4 - Glass gas generating bottles

5 - Glass copper flasks

3 - Glass water bottles (small size)

10 - Glass " (large size)

1 - 1000 cc Glass decanter

11 - Assorted sizes Glass stills

1 - Bunsen burner

2 - Medium size Glass jar for silver titration

3 - Small size " " " " "

1 - 16" Glass funnel

2 - Large size Glass precipitating jars

1 - Bundle small glass tubing assorted sizes

1 - Box porcelain crucible covers small size

1 - Set of hard rubber propellers for silver cells

1 - 250 cc Glass graduated

1 - 500 cc " "

7 - Porcelain encasing cups large size

1 - 6" Stoneware mortar and pestle

1 - 2" " " " " "

1 - 50° Centigrade thermometer

1 - 10" Stoneware mortar and pestle

60 - Bottles assorted chemicals

3 - Leather rings for ram on hydraulic Press

1 - Box porcelain rods for SdL cells

16 - Brielle bush test tube cleaners

3 - Wooden funnel holders

1 - Electric fan (damaged)

1 - Small electric bipolar generator (no trace)

1 - " Gas furnace

1 - 4 Pint cast iron retort (damaged)

- 1 - Electric warming room (50 above room)
 1 - Glass cylinder
 2 - 12" R. B. Portland filler cones (damaged)
 2 - Oil lanterns
 2 - Small size acid bottles
 2 - Large "

Reverberatory Furnace Room

- 1 - 10" Steel bench and frame
 1 - Lead lined cooling tank 2' x 3' 6" x 20"
 5 - Large cast iron moulds for copper
 1 - Rockwell reverberatory furnace
 1 - Slush bar
 1 - Large shovel
 1 - Steel cylinder for hydraulic press (worn)
 2 - Cast iron slag pots on wheels
 1 - Large copper tank for granulation
 6 - Lead lined baskets for copper cells
 1 - Large lead floor tray
 1 - Bx hard rubber pipe and fittings assorted size
 1 - Lead lined box on castors
 1 - Brown earthenware tank for acid 31' x 35"
 6 - Earthenware cells 2' x 2' x 4' 2 of same diameter
 4 - " baskets large size perforated
 2 - " small " "
 1 - Ball press hammer

Miscellaneous

- 3 B hairs
 1 - Centrifuge - damaged (sent to store room)
 1 - Electric deep bath " "
 1 - Copper spate bath " "
 3 - Wooden stands for holding furnaces " "
 1 - Can imported compound for electric bath " "
 2 - Electric deep bath trough " "
 8 - Miscellaneous hard rubber pipe fittings

OF THE UNITED STATES AT

Leinen

NICKEL, Troy Ounces, Dec.

—

CHRYSLER, INC. JACOBSON

13561501

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, April, 1914.

	Time Lost	Conduct	Workmanship
Arnold, R.G.	---	100	98
Bartlett, H.D.	---	100	98
Borstadt, G.	---	100	98
Bush, W.M.	---	100	99
Crary, J.H.	1 hr. leave	100	98
Dardis, W.N.	---	100	98
French, H.W.	---	100	98
Gray, G.B.	1 hr. leave	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	98
Hume, F.N.	---	100	98
Lindhart, J.A.	---	100	98
Lundin, A.H.	---	100	99
Milson, J.W.	---	100	97
Perry, R.J.	---	100	97
Presnell, J.H.	---	100	98
Russell, N.A.	---	100	98
Schell, E.P.	1 hr. leave	100	98
Spencer, G.N.	1 hr. leave	100	96
"	1 day sick		
St. John, F.	3½ hrs. leave	100	100
Stoddard, X.T.	---	100	99
Whitaker, S.R.	---	100	98
Whitehead, H.R.	---	100	99

Gain & Loss in GOLD & SILVER in melting GoldAnode melts,

No. of Melt	No. of Bars	Before Melting					
		Weight	Fineness		Fine Ounces		
			Gold	Silver	Gold	Silver	
171 *	9	6067.34	.8276	.1406	5021.219	853.18	
2	7	6526.96	.8405	.1220	5485.648	798.52	
3	9	6811.40	.8209	.1477	5591.907	1006.43	
5 #	16	6688.80	.8153	.1606	5456.350	1074.16	
6	15	6494.55	.8138	.1548	5285.305	1004.96	
7	12	5895.64	.8261	.1375	4970.317	810.69	
8	7	6692.35	.8240	.1462	5514.328	978.41	
9	9	7148.99	.8213	.1433	5871.665	1024.78	
180	6	6874.16	.8229	.1410	5656.863	1026.51	
1	17	7010.61	.8214	.1500	5758.938	1051.75	
2	12	7225.52	.8258	.1500	5952.325	1084.07	
3	8	7302.58	.9428	.0538	7355.999	283.24	
4	20	7315.58	.8190	.1530	5991.172	1126.05	
5	18	7398.41	.8210	.1534	6074.024	1127.84	
6	17	7399.92	.8290	.1305	6134.766	965.55	
7	16	7118.36	.8169	.1485	5816.174	1057.43	
9 *	9	7517.87	.9415	.0460	7077.645	345.75	
190	11	7554.53	.8548	.1153	6457.775	870.91	
1	9	7355.16	.8367	.1267	6137.108	929.49	
2	9	7648.37	.8468	.1116	6476.462	852.84	
3	9	7390.85	.8254	.1252	6085.787	925.68	
4	9	7459.73	.9233	.0617	6868.681	459.72	
5	21	7231.32	.8236	.1316	5955.772	951.39	
6	13	7414.32	.8284	.1315	6141.901	976.06	
7	8	6722.81	.8235	.1347	5536.113	905.54	
8	7	7111.88	.8353	.1109	5940.429	788.42	
9	11	7327.21	.8175	.1402	5990.187	1026.99	
200	12	7520.16	.8116	.1487	6103.525	1118.20	
1	13	7630.46	.8115	.1543	6192.281	1176.99	
2	11	7253.26	.8056	.1588	5842.794	1151.95	
3	13	7216.79	.9096	.0697	6564.625	502.83	
		220,785.89			185,207.665	28,233.17	

* Nos. 170 & 188, Special melts

No. 174 melted in March

Silver Anodes						
185	34	5336.57	.3799	.5093	2027.411	2718.04
6	42	5702.70	.3776	.5263	2155.153	3001.50
7	45	5646.45	.3864	.4994	2181.502	2819.76
8	7	5576.64	.3782	.5432	2109.176	3029.07
190 *	40	5687.96	.3882	.5407	2208.095	3071.69
1	48	5816.12	.3716	.5294	2160.926	3079.11
2	24	5926.33	.3816	.5144	2261.242	3048.24
3	20	5684.86	.3932	.5035	2235.464	2861.63
4	12	5939.37	.3717	.5283	2205.993	3157.68
5	11	5688.39	.3869	.5143	2200.759	2955.65
6	13	5553.03	.3917	.5150	2175.026	2860.16
7	36	5399.53	.3788	.5003	2235.079	2951.41
9 *	6	5583.53	.3217	.5882	1796.421	3284.32
201 *	14	5618.65	.3753	.5265	2108.645	2969.51
2	13	5905.76	.3899	.5070	2302.344	2994.16
3	35	5407.11	.3709	.5320	2005.404	2876.69
4	31	5668.80	.3858	.5169	2166.736	2930.03
5	7	5857.39	.3880	.5123	2260.944	3000.56
6	25	5560.62	.3969	.4982	2206.894	2770.10
7	25	5982.96	.3745	.5151	2239.265	3081.80
8	17	5752.05	.3953	.5173	2273.897	2975.41
		119,794.84			45,534.416	62,416.42

* Nos. 189, 198, 200, Granulations

Denver Mint, April, 1914.

After Melting					Fine Ounces			
Weight.	Fineness		Fine Ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
6063.23	.8279	.1420	5019.748	860.97		1.471	7.79	
6522.15	.8405	.1230	5481.867	802.22		3.781	5.70	
6808.46	.8213	.1480	5591.788	1007.65		.119	1.22	
6886.12	.8159	.1610	5455.205	1076.46		1.135	2.30	
6491.20	.8137	.1580	5281.889	1025.80		3.416	20.64	
5829.53	.8261	.1395	4865.216	821.56		5.101	10.87	
6090.41	.8241	.1465	5515.586	980.14		.752	1.73	
7144.77	.8210	.1480	5865.858	1021.70		5.809		3.08
6370.46	.8231	.1605	5655.075	1034.00		1.788	7.49	
7007.10	.8214	.1515	5755.631	1061.57		3.307	9.82	
7223.52	.8338	.1510	5950.735	1090.75		1.590	6.68	
7799.71	.9429	.0375	7354.346	292.43		1.653	29.24	
7312.27	.8194	.1560	5991.674	1140.71	.502		14.66	
7396.11	.8207	.1570	6069.987	1161.18		4.037	33.34	
7396.69	.8294	.1345	6134.814	994.85	.048		29.30	
7115.97	.8172	.1530	5815.170	1088.74		.004	31.31	
7815.42	.9417	.0460	7077.271	345.70		.374		.05
7351.13	.8351	.1165	6456.971	879.70		.804	8.79	
7382.50	.8373	.1275	6139.502	934.89	2.394		5.40	
7645.18	.8473	.1120	6477.761	856.26	1.299		3.42	
7384.24	.8237	.1270	6082.398	937.79		3.389	12.11	
7437.29	.9224	.0670	6867.593	498.29		1.088	38.57	
7226.50	.8240	.1345	5954.636	971.96		1.136	20.67	
7499.07	.8282	.1355	6136.191	1003.92		5.710	28.92	
6719.10	.8237	.1345	5534.522	903.71		1.591		1.83
7106.83	.8357	.1115	5939.177	792.41		1.252	3.99	
7321.70	.8178	.1380	5987.636	1010.39		2.501		16.60
7815.12	.8119	.1460	6101.525	1097.20		2.000		21.00
7628.22	.8116	.1530	6191.063	1167.11		1.218		9.88
7850.71	.8056	.1600	5841.171	1130.11		1.623	8.16	
7211.69	.9098	.0715	6581.195	515.63		3.430	12.80	
220672.25			185151.229	28535.65	4.243	60.079	354.92	52.44
						4.243	52.44	

Melting Loss, Gold
" Gain, Silver

Recovery for Month

Net loss on Gold

Net gain on Silver

55.836

302.48

33.747

6.78

22.089

309.26

5328.43	.3800	.5090	2024.803	2712.17		2.608		5.87
5695.95	.3777	.5310	2151.360	3024.54		1.773	23.24	
6040.92	.3865	.5005	2180.215	2823.28		1.287	3.52	
5570.51	.3785	.5425	2108.438	3027.57		.738		1.50
6684.27	.3889	.5440	2210.612	3092.24	2.517		20.35	
5805.26	.3714	.5315	2156.073	3085.49		4.913	6.38	
5885.23	.3817	.5175	2246.392	3045.60		14.850		2.64
5677.23	.3933	.5055	2232.854	2869.53		2.610	7.90	
5931.45	.3719	.5280	2205.903	3131.80		.087		5.88
5621.99	.3868	.5220	2197.793	2965.99		2.966	10.34	
5544.26	.3918	.5185	2172.241	2874.69		2.785	14.53	
5891.69	.3768	.5050	2231.772	2975.30		3.307	23.89	
5576.74	.3818	.5680	1794.594	3279.12		1.827		5.20
5611.77	.3752	.5285	2106.097	2965.82		2.548		3.49
5823.83	.3897	.5115	2296.825	3014.69		5.519	20.53	
5404.93	.3710	.5350	2005.229	2891.63		.175	14.94	
5364.88	.3852	.5155	2185.510	2920.24		1.226		9.79
5350.64	.3860	.5155	2258.347	3016.00		2.597	15.44	
5554.67	.3975	.5040	2207.981	2799.55	1.087		29.45	
5269.72	.3758	.5170	2243.420	3086.34	4.155		4.74	
5739.27	.5982	.5155	2274.096	2958.85	.199			16.56
115604.14			45490.556	62560.74	7.958	51.816	195.25	50.93
						7.958	50.93	

Melting Loss, Gold
" Gain, Silver

Recovery for month

Net loss on Gold

Net gain on Silver

43.858

144.32

31.254

42.67

12.604

186.99

5/5/14

REFINERY

1. Bullion sent to Refinery:		
a. Bullion with charges		264,330.02
b. " without "		1,357.83
c. " .992 & over, Gold		10,634.34
d. " Refinery - retreated		187,381.01
e. Mint fine silver bars		11,475.37
Total		<u>475,178.57</u>
2. Production: Fine gold		193,254.63
" silver		79,923.35
		<u>273,177.98</u>
3. Cost of operations:		
a. Labor	\$1,819.15	
b. Vacation & Holidays	8.01	
c. M. & R. Gen'l	436.00	
d. Crucibles	76.50	
e. Mitts, gloves, aprons	73.45	
f. Chemicals	0.00	
g. Acids	681.11	
h. Fuel oil	107.92	
i. Supplies	268.43	
j. Sweeps cellar	195.95	
k. Repairs -- materials	31.10	
l. " labor	132.14	
m. Steam	85.03	
n. Electricity	317.51	
o. Light	9.00	
p. Assay charges	238.01	
Total	<u>\$4,569.31</u>	
New Equipment -- None		
4. Cost per crude ounce for month		.017286
5. " " " " " year		.016450
6. Cost per ounce total operated for month		.009615
7. " " " " " year		.009473
8. Gross wt. of bullion with charges		264,330.02
9. Cost of operating Refinery		\$4,569.31
10. P. & R. Charges collected		11,034.94
11. Profit on Refinery operations		6,465.63
12. Average per ounce P. & R. Charges collected		.041746

INGOT ROOM

1. Amount of bullion melted:	Gold	454,781.43
	Silver	149,549.05
	Total	<u>604,330.48</u>

2. Amount of Good ingots:	D. Eagles	444,479.70
	Quarters	98,101.10
	Dimes	48,640.85
	Total	<u>591,221.65</u>

3. Cost of Ingots:	Gold	Silver	Total
a. Labor	\$294.11	\$132.14	\$426.25
b. M. & R. Gen'l	150.41	67.58	217.99
c. Mitts & Gloves	4.76	2.14	6.90
d. Crucibles	47.51	21.34	68.85
e. Sweeps cellar	73.93	33.22	107.15
f. Supplies	71.45	32.10	103.55
g. Fuel oil	68.28	30.68	98.96
h. Power	9.94	4.46	14.40
i. Steam	21.33	9.59	30.92
j. Light	0.00	0.00	0.00
k. Repairs	10.98	4.93	15.91
l. Vacation & H'days	.63	.28	.91
m. Alloy copper	264.00	128.66	392.66
Totals	<u>\$1,017.33</u>	<u>\$467.12</u>	<u>\$1,484.45</u>

4. New Equipment -- None

5. Percentage of good ingots:	Gold	97.7
	Silver	98.1

6. Average cost of ingots for ten months:	Gold	.002172
	Silver	.002366
	Nickel	.002822
	Bronze	.002617

7. Cost distributed:	Double Eagles	\$1017.33
	Quarters	155.42
	Dimes	311.70
	Total	<u>\$1484.45</u>

May 7, 1914.

MELTING AND REFINING DEPARTMENT BALANCES

3-14205
Mint
OF THE UNITED STATES AT Denver
Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of May, 1914
DELIVERED
NICKEL

[illegible][illegible]

Balance	Contained in Gold Deposits	Contained in Silver Deposits	Contained in	Clippings, blanks, etc.	Ingot	Bar, Fine	Bar, Standard	Bar, Unparted	Bar	Sweep
1788	339	56								
10	302	06								
45	087	80								
55	5	15								
31	440	53								
15	57									
199	53									
200	883	52								
1788	339	56								
10	302	06								
45	087	80								
55	5	15								
31	440	53								
15	57									
199	53									
200	883	52								

<u>208181152</u>	
Balance May 29	\$ 1730 821 52
Total	Total

Balance
Total

Subsidiary Mollins and Refining.

Superintendent.

791

Superintendent Melting and Refining.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, May, 1914.

	Time Lost	Conduct	Workmanship
Anld, R.G.	---	100	98
Bstadt, G.	---	100	96
Bh, W.M.	---	100	99
Coy, J.H.	---	100	98
Davis, W.N.	---	100	96
Frich, H.W.	1 day sick	100	96
Gray, G.B.	---	100	98
Heich, J.M.	---	100	100
Hoert, D.T.	---	100	95
Hun, F.N.	---	100	98
Limart, J.A.	---	100	98
Luth, A.H.	1 day leave	100	99
Milm, J.W.	---		
Pery, R.J.	---	100	97
Presell, J.H.	---	100	97
Russel, N.A.	---	100	98
Schel, E.P.	4 hrs. leave	100	98
Spenser, G.N.	---	100	96
St. John, F.	1/2 hr. leave	100	100
Stoddard X.T.	1 day leave	100	99
Whiteer, S.R.	---	100	98
Whitesad, H.R.	---	100	99

GAIN & LOSS in GOLD & SILVER in Melting Gold Anode melts,

No. of Melt	No. of Bars	Before Melting				
		Weight	Fineness		Fine Ounces	
			Gold	Silver	Gold	Silver
204	9	7123.70	.8230	.1525	5863.185	1086.45
5	11	7004.24	.8114	.1573	5683.746	1101.70
6	15	6974.21	.8089	.1531	5641.063	1067.51
7	11	7107.93	.8117	.1470	5769.354	1044.38
8	10	7804.55	.9604	.0286	7495.170	222.95
210 *	6	6601.78	.8110	.1568	5354.055	1035.27
1	6	7369.28	.8139	.1507	5997.800	1110.36
2	7	7083.96	.8286	.1336	5869.360	946.54
3	7	7423.31	.8149	.1441	6049.394	1069.39
4	6	7207.37	.8024	.1554	5783.194	1119.84
5	8	7511.08	.8198	.1227	6157.477	921.35
6	7	7480.67	.8034	.1481	6010.172	1107.83
7	14	7117.95	.8071	.1405	5744.608	1000.18
8	14	7190.11	.8141	.1388	5853.809	997.96
9	15	7515.48	.8251	.1360	6200.777	1021.69
220	14	7085.84	.8285	.1250	5870.743	885.96
1	22	7131.25	.9172	.1224	5827.430	873.02
2	13	6852.22	.9311	.0470	6380.105	321.95
3	14	7061.57	.9313	.0603	6576.339	426.09
		136846.50			114127.781	17360.42

*209, Special melt

Silver Anodes

209	9	5527.30	.3765	.5350	2081.268	2957.04
210	9	5898.88	.3879	.5065	2288.124	2987.67
1	8	5758.53	.3767	.5223	2169.192	3007.66
2	8	5521.80	.3961	.5237	2186.967	2891.94
3	22	5708.60	.3687	.5280	2104.462	3013.75
4	29	5776.33	.3653	.5460	2110.104	3153.51
5	17	6019.85	.3830	.5090	2305.240	3063.63
6	32	5971.07	.3905	.5086	2331.741	3036.74
7	23	5889.63	.3794	.4975	2234.528	2929.80
8	7	6098.41	.3916	.5174	2388.253	3155.18
220 *	9	5721.25	.3938	.5380	2252.910	3078.02
1	23	5646.50	.3840	.5245	2167.770	2961.01
2	25	5599.29	.3814	.5225	2135.651	2925.55
3	9	6035.83	.3609	.5198	2178.387	3137.56
4	11	5905.45	.3801	.5087	2244.828	3003.67
5	15	5820.71	.3729	.5221	2170.469	3039.06
6	19	6009.50	.3958	.5192	2378.819	3120.45
7	31	6006.58	.3702	.5080	2223.513	3051.12
8	32	4949.22	.3867	.5475	1914.010	2709.83
9	27	5531.14	.3625	.5409	2004.889	2991.33
		115395.97			43871.125	60214.52

*219, Granulation

Monthly Cost Report, Melting & Refining Dept., Denver Mint, May, 1914.

M. & R. General			
Costs - Direct -	Personal services: Superintendent, asst.supt., clerks, & any helpers who may not be employed specifically on the other jobs	\$626.58	
	Annual & holiday, sick & accident leave for entire dept.	85.83	\$712.41
	Stores: All issues for general use	.88	
	Current expenses	.00	.88
	Total direct		\$713.29
Indirect -	Administration	962.29	
	Operation of building	439.04	1401.33
	Total general		\$2114.62
Distribution:	Refinery		\$1417.85
	By-products		182.38
	Sweeps cellar (not operated under M. & R.)		
	Ingot making		514.49
	Total		\$2114.62

By-products			
Costs - Direct -	Personal services: All employees hereon		\$279.00
	Stores		27.52
	Current expenses: (Fuel - gas)	1.20	
	Contract repairs	.00	
	Other	.00	1.20
	Total direct		\$307.72
Indirect -	Power plant: Power	4.32	
	Light	.60	
	Heat - Steam	18.00	22.92
	Shops: Maintenance & repairs	.00	
	Assay Dept. (assays)	.00	
	M. & R. Dept. (General)	182.28	
	Sweeps cellar	.00	182.28
	Total		\$512.92
Distribution -	Recovery of By-products		\$512.92

Statistics	Metals recovered.	
	Ounces	Estimated value
Platinum	31.17	\$1402.65
Palladium		
Copper	10,182.60	102.98
Other recoveries		
		\$1505.63

Page 2

Refinery

Costs - Direct - Personal services: Foreman & all other employees \$1369.07

Stores: Graphite goods	\$53.02	
Fuel (oil)	168.82	
Acids	449.72	
Other chemicals	4.13	
Fluxes	57.50	
Gloves & Mitts	46.20	
Other	21.59	800.98

Current expenses: Fuel (gas)	.00	
Contract repairs	.00	
Other	.00	.00

Total direct \$2170.05

Indirect - Power plant: Power	298.76	
Light	7.45	
Heat - Steam	90.06	396.27

Shops: Maintenance & repairs	150.62	
M. & R. Dept. General	1417.85	
Sweeps cellar	299.56	
Bar division	0.00	
Assay dept. (assays)	350.56	2218.59

	Total	4784.91
Work in process at close of last month		3004.03

\$7788.94

Distribution: Work in process at close of this month	3914.91
Production of Refined bullion	3874.03

Total \$7788.94

Ingot Making

Distribution					
	Gold	Silver	Dimes	Nickels	Cents
Total	Eagles	1/2 Eagles	Halves		

Costs - Direct - Personal services:

Foreman & all employees

Stores: Graphite goods

Fuel (oil)

Chemicals & fluxes

Gloves & mitts

Other

Alloy copper

Current expenses: Fuel (gas)

Contract rep.

Other

Total direct

Indirect - Power plant: Power

Light

Steam

Shops+ Maintenance & repairs

M. & R. General

Sweeps cellar

Assay dept. (assays)

Total

Distributed direct

Distributed indirect

Totals by denominations

Statistics: Std. ozs. operated upon

" " of production

Per cent. of production,

for month

Do. for year to date

Cost of std. oz. product, mo.

Do. for year to date

Ingot's made during month
Double eagles 107,397.29
Dimes 373,197.55

\$365.56	\$77.68	\$287.88			
5.10	1.08	4.02			
90.98	19.35	71.65			
.00	.00	.00			
.90	.19	.71			
4.86	1.03	3.83			
319.96	.00	319.96			
0.00	.00	.00			
0.00	.00	.00			
0.00	.00	.00			
\$787.36					
17.10	3.63	13.47			
2.05	.44	1.61			
40.56	8.62	31.94			
17.88	3.80	14.08			
514.49	109.33	405.16			
70.54	14.99	55.55			
313.15	66.54	246.61			
\$1763.13					
787.36	99.31	688.05			
975.77	207.35	768.42			
\$306.66		\$1456.47			
Gold	Silver	Nickel	Bronze		
109,990.58	379,532.15				
107,397.29	373,197.55				
97.6	98.3	99.1	99.0		
97.5	98.3				
.002855	.003902	.002822	.002619		
.002291	.002580				

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

M. & R. Employees' -- Names, Addresses, 'Phones

June 20/14

Arnold, R.G.	3079 W. 34th Ave	
Bartlett, H.D.	2909 York	
Borstadt, Geo.	2721 W. 28th Ave.	Gallup 792
Bush, W.M.	3146 Williams	York 5925 (Wicks' 'phone)
Crary, J.H.	1168 Delaware	Main 2521 (Seeman's ")
Dardis, W.N.	2265 Forrest	Blue 3256
French, H.W.	1149 Cherokee	
Gray, Geo. B.	1075 South Ogden	South 1842
Hetrich, J.M.	DeSoto Hotel, 1848 B'wy	Main 5834
Howbert, D.T.	Law Hotel, 1752 Stout	Main 4081
Hume, F.N.	1810 Downing	York 4233
Lindhard, J.A.	152 Archer	South 1571 (Hiester's 'phone)
Lundin, A.H.	1127 Delaware	
Milson, J.W.	1526 Lafayette	York 4738
Perry, R.J.	834 South Emerson	South 139 (call)
Presnell, J.H.	1643 Tremont	
Russell, M.A.	835 Acoma	South 4047
Schell, E.P.	2062 Eudora	York 4755
Spencer, G.N.	1461 Logan	Main 4872
St. John, F.	617 Galapago	South 3439
Stoddard, X.T.	2323 Arapahoe	
Whitaker, S.R.	51 W. Ellsworth	South 3942
Whitehead, H.R.	220 South Corone	South 2476

OF THE UNITED STATES AT

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the _____ by him during the _____, 191

[illegible][illegible]

Approved: _____, Superintendent.

191 _____

Superintendent Melting and Refining.

GAIN & LOSS in GOLD & SILVER in Melting Gold anode melt,

No. of Melt	No. of Bars	Before Melting				
		Weight	Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
224	6	6639.23	.8091	.1564	5371.815	1038.45
5	6	6838.28	.8179	.1492	5592.602	1019.95
6	21	6582.01	.9500	.0439	6252.695	288.76
7	10	6650.23	.8138	.1560	5412.084	1037.18
8	17	6575.81	.8154	.1621	5361.940	1065.95
9	6	6854.14	.8136	.1531	5576.269	1049.68
230	7	7063.62	.8065	.1520	5697.054	1073.32
1	7	7012.50	.8141	.1534	5709.119	1075.70
2	* 10	6927.50	.8072	.1461	5591.890	1011.90
4	8	6910.74	.8267	.1406	5713.022	971.33
5	6	6858.63	.8220	.1406	5637.422	963.97
6	7	7127.86	.8251	.1308	5881.002	932.10
7	7	7142.06	.8214	.1436	5866.694	1025.89
8	13	7223.14	.9389	.0542	6781.555	591.60
9	17	7093.79	.8539	.1310	6057.515	928.96
240	7	6833.69	.8275	.1404	5655.239	959.82
1	6	6799.25	.8220	.1538	5588.501	1045.21
2	7	7100.09	.8290	.1351	5885.434	959.24
3	24	7486.81	.8057	.1512	6032.255	1131.99
4	7	7046.50	.8084	.1580	5696.702	1112.45
5	7	7220.06	.8147	.1449	5880.712	1045.77
6	6	7115.32	.8265	.1350	5881.072	960.93
7	11	6854.61	.9222	.0704	6321.066	482.43
		159955.87			135443.659	21573.04

#233 - Special

Silver Anodes

230	34	5459.42	.3576	.5370	1952.263	2931.59
1	43	6060.36	.4004	.4967	2426.685	3010.25
2	22	5596.82	.3863	.5296	2162.295	2964.05
3	9	5699.45	.3944	.5190	2247.784	2957.57
4	37	5459.30	.3934	.5151	2147.822	2812.36
5	34	5786.78	.3659	.5380	2117.125	3112.97
6	18	5320.98	.3840	.5600	2043.099	2979.62
7	6	5800.23	.3636	.5392	2108.603	3127.28
8	6	5965.63	.3680	.5479	2195.430	3268.40
9	24	5880.20	.3606	.5480	2120.513	3221.25
240	18	5931.15	.3777	.5390	2239.982	3196.86
1	23	5364.32	.3840	.5344	2060.160	2872.01
2	24	5726.16	.3941	.5276	2256.837	3021.26
3	11	5541.90	.3842	.5257	2129.127	2913.01
4	7	5656.87	.3646	.5404	2062.704	3057.03
5	36	5802.93	.3736	.5273	2167.555	3059.72
6	46	5984.10	.3773	.5355	2257.582	3204.64
7	42	5630.41	.3740	.5431	2105.444	3057.58
8	48	5583.09	.3950	.5459	2205.241	3047.54
		108250.10			41008.251	57814.99

Denver Mnt, June, 1914.

After Melting					Fine ounces			
Weight	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
6636.01	.8094	.1550	5371.186	1028.58		.629		9.87
6835.03	.8179	.1495	5590.371	1021.83		2.231	1.88	
6580.76	.9502	.0445	6253.038	292.84	.343		4.08	
6647.09	.8140	.1560	5410.731	1036.94		1.353		.74
6572.56	.8154	.1635	5359.265	1074.61		2.675	8.66	
6850.97	.8137	.1510	5574.634	1034.49		1.635		15.14
7058.30	.8060	.1520	5688.989	1072.86		8.065		.46
7005.81	.8140	.1515	5702.729	1061.38		6.390		14.32
6924.33	.8072	.1445	5589.319	1000.56		2.571		11.34
6905.81	.8269	.1395	5710.414	963.36		2.608		7.97
6854.65	.8321	.1400	5635.207	959.65		2.215		4.32
7122.71	.8255	.1305	5879.797	929.51		1.205		2.59
7139.29	.8214	.1490	5864.212	1063.75		2.482	37.86	
7221.48	.9388	.0545	6779.525	393.57		2.030	1.97	
7088.87	.8541	.1370	6054.603	971.17		2.912	42.21	
6830.84	.8279	.1420	5655.252	969.97	.013		10.14	
6794.72	.8219	.1545	5584.580	1049.78		3.921	4.57	
7097.66	.8294	.1375	5886.799	975.92	1.365		16.68	
7481.73	.8058	.1520	6028.778	1137.22		3.477	5.23	
7045.11	.8085	.1580	5695.971	1113.12		.731	.67	
7217.14	.8148	.1450	5880.525	1046.48		.187	.71	
7111.16	.8263	.1375	5875.951	977.78		5.121	16.85	
6848.29	.9223	.0695	6316.177	475.95		4.889		6.48
159870.32			133388.053	21651.32	1.721	57.327	151.51	73.23
						1.721	73.23	

Melting loss - Gold
 " gain - Silver
 Recovery for month
 Net loss - Gold
 " gain - Silver

55.606
 78.28
 24.973
 4.64
 30.633
 82.92

5450.64	.3584	.5375	1953.509	2929.71	1.246			1.88
6048.87	.4009	.5000	2424.991	3024.43		1.694	14.18	
5590.02	.3868	.5300	2162.219	2962.71		.076		1.34
5689.24	.3950	.5205	2247.249	2961.24		.535	3.67	
5452.15	.3940	.5160	2148.147	2813.30	.325		.94	
5777.37	.3662	.5395	2115.672	3116.89		1.453	3.92	
5314.19	.3845	.5610	2043.306	2981.26	.207		1.64	
5792.77	.3635	.5405	2105.671	3130.99		2.932	3.71	
5955.10	.3686	.5485	2195.049	3266.37		.381		2.03
5868.02	.3606	.5460	2116.008	3203.93		4.505		17.32
5919.87	.3777	.5380	2235.934	3184.89		4.048		11.97
5356.43	.3845	.5345	2059.547	2863.01		.613		9.00
5718.13	.3946	.5290	2256.374	3024.89		.463	3.63	
5534.92	.3845	.5275	2128.176	2919.67		.951	6.66	
5644.76	.3649	.5440	2059.772	3070.74		2.932	13.71	
5792.06	.3743	.5325	2167.968	3084.27	.413		24.55	
5968.41	.3770	.5390	2250.090	3216.97		7.492	12.33	
5617.42	.3745	.5455	2103.723	3064.30		1.721	6.72	
5572.44	.3948	.5510	2199.999	3070.41		5.242	22.87	
108062.81			40973.404	57889.98	2.191	35.038	118.53	43.54
						2.191	43.54	

Melting loss - Gold
 " gain - Silver
 Recovery for month
 Net loss - Gold
 " gain - Silver

32.847
 74.99
 25.460
 34.43
 7.387
 109.42

July 23, 1914.

MELTING AND REFINING DEPARTMENT BALANCES.

U. S. MINT SERVICE.
FORM 919.
EST. 1900-F. G. D. 5-12-14 x 5 1/2

OF THE UNITED STATES AT *Denver, Colo.*

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent

of the *Month of August*, 191*4*, by him during the

RECEIVED.	GOLD, Fine Ounces.	Dec.	DELIVERED.	GOLD, Fine Ounces.	Dec.	RECEIVED.	NICKEL, Troy Ounces.	Dec.	DELIVERED.	NICKEL, Troy Ounces.	Dec.
Balance Redelivery	1057	581 083	Ingots			Balance					
Retained in Gold Deposits	85	954 337	Bars, Fine			Redelivery	744	111 52			
Retained in Silver Deposits	3	345 572	Bars, Standard			Others del.	42	692 40			
Retained in Gold Exp. Dep.		82 931	Bars, Unparted			Clippings	7	638 70			
Spings, blanks, etc.		95 968 812	Bars								
<i>W. del. July bullion</i>		2 937 887	Sweeps								
<i>others del.</i>											
Total	1545	919 972	Balance Aug. 31 st	1245	919 972	Total	794	332 60	Balance	760	328 02
			Total (purified)	1245	919 972				Total	743	332 62
RECEIVED.	SILVER, Fine Ounces.	Dec.	DELIVERED.	SILVER, Fine Ounces.	Dec.	RECEIVED.	BRONZE, Troy Ounces.	Dec.	DELIVERED.	BRONZE, Troy Ounces.	Dec.
Balance Redelivery	1724	751 41	Ingots			Balance					
Retained in Gold Deposits	12	387 20	Bars, Fine			Redelivery	805	645 07			
Retained in Silver Deposits	38	397 45	Bars, Standard			Others del.	37	842 85			
Retained in Gold Exp. Dep.		294 93	Bars, Unparted								
Spings, blanks, etc.		17 87	Bars								
<i>W. del. July bullion</i>		34 563 47	Sweeps								
<i>others del.</i>		721 04									
	500	280 86									
Total	2314	418 77	Balance Aug. 31 st	2314	418 77	Total	143	487 92	Balance	502	210 52
			Total	2314	418 77				Total	143	487 92
			<i>Balance</i>	1209	654 97						
			<i>Exp. Dep.</i>	704	763 80						

Approved: *W. L. Anderson*, Superintendent.

Sept 1st, 191*4*, *J. G. Merrillson*, Superintendent Melting and Refining.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, August, 1914.

	Time	Conduct	Workmanship
Arnold, R.G.	20 das. 4 hrs. 1v.	100	95
Borstadt, G.	21 "	100	97
Bush, W.M.	8 "	100	98
Crary, J.H.	21 "	100	97
Dardis, W.N.	21 "	100	97
French, H.W.	21 "	100	96
Gray, G.B.	5 hrs.	100	98
Hettrich, J.M.	17 das. 4 "	100	100
Howbert, D.T.	8 "	100	95
Hume, F.N.	21 "	100	98
Lindhard, J.A.	9 " 4 hrs.	100	98
Lundin, A.H.	22 "	100	98
Milsom, J.W.			
Perry, R.J.	23 das. 1v.	100	97
Presnell, J.H.	22 "	100	97
Russell, N.A.	21 "	100	98
Schell, E.P.	4 "	100	95
Spencer, G.N.	23 "	100	98
St. John, F.	13 "	100	100
Stoddard, X.T.	19 " 4 hrs.	100	98
Whitaker, S.R.	22 "	100	98
Whithead, H.R.	6 " 4 hrs.	100	99

The Superintendent of the Melting and Refining Department of the Mint of the United States at DENVER, received, operated upon, and delivered Gold and Silver Bullion and Minor Coinage metal, during the fiscal year 1914, as follows:

RECEIPTS	Items	Gold Account	Silver Acct.	Nick. Acct.	Bronze Acct.
		Fine Ozs.	Fine Ozs.	Fine Ozs.	Fine Ozs.
	Set'm't metal 6/30/13	1,092,712.576	765,215.05	1,438,565.18	477,122.85
	" " 8/28/13	1,421,809.941	889,824.61	537,131.82	579,233.71
	Deposits	1,028,670.325	573,329.93		
	Re-Deposits	602,465.337	229,350.91		
	Clippings	202,375.269	582,302.02	166,226.80	422,152.30
	Condemned coin	11,135.718	40,353.77	10,988.00	22,146.00
	" blanks	58,451.256			
	Treasury purchases		2,018,075.65		
	Exchange bars	890.826	5,404.54		
	Supt.'s sweeps bars	267.451	294.12		
	Coiner's bars	17.937	32.78		
	Proof metal	145.126	100.00		
	Certificate bars	1,438.326			
	Ingot copper			533,380.00	875,123.33
	Nickel			213,750.00	
	Zinc				59,333.33
	Tin				44,027.08
	Copper from Nickel Acct. transferred				700,000.00
<i>H. J. P.</i>	Total	4,420,407.388	5,099,683.65	2,355,021.80	3,186,146.58
DELIVERIES					
	Set'm't metal 8/28/13	1,421,809.941	889,824.61	537,131.82	579,233.71
	Ingots	526,424.823	2,465,127.12	671,224.60	1,784,930.90
	Merchant bars	2,846.030			
	Certificate bars	1,352,913.321			
	Unparted bars	1,057,568.993			
	Fine bars	57,721.396	614,914.04		
	Proof, cornets, etc.	12.080	1,109,374.11		
	Sweeps	720.660	463.26		
	Ingot copper		1,301.24		
	Nickel			426,491.72	620,628.82
	Zinc			317,629.74	
	Tin				58,788.67
	Copper to Bronze Acct. transferred				48,249.58
<i>H. J. P.</i>	Total	4,420,017.254	5,101,004.38	2,582,467.74	3,169,809.68
	Wastage, Set'm't 8/28/13	8.317		1,386.14	3,896.12
	" 6/30/14	381.317		1,168.70	5,642.72
	Surplus, " 8/28/13		57.31		
	" 6/30/14		1,363.42		
AMOUNT OPERATED UPON					
	Ingot Room	567,808.092	2,535,492.37	872,332.46	1,803,564.03
	Refinery	2,199,614.425	1,493,864.51		
	Total	2,767,422.517	4,029,356.88	872,332.46	1,803,564.03

Sum.

MELTING AND REFINING DEPARTMENT BALANCES.

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the Mint OF THE UNITED STATES AT Denver by him during the month of September 1914.

RECEIVED.	GOLD, Fine Ounces.	Dec.	DELIVERED.	GOLD, Fine Ounces.	Dec.	RECEIVED.	NICKEL, Troy Ounces.	Dec.	DELIVERED.	NICKEL, Troy Ounces.	Dec.
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Balance Sept 30 12312.806
 37,853.254
 155,517.415
Total 216,583.475

Balance Sept 30 436.292 02
 900.057 32

Balance Sept 30 1668.785 515
 1668.785 515
Total 3337.570

RECEIVED.	SILVER, Fine Ounces.	Dec.	DELIVERED.	SILVER, Fine Ounces.	Dec.	RECEIVED.	BRONZE, Troy Ounces.	Dec.	DELIVERED.	BRONZE, Troy Ounces.	Dec.
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Balance Sept 30 2314.418 77
 13.489 63
 28.859 03
 70.980 59
Total 2347.747 42

RECEIVED.	SILVER, Fine Ounces.	Dec.	DELIVERED.	SILVER, Fine Ounces.	Dec.	RECEIVED.	BRONZE, Troy Ounces.	Dec.	DELIVERED.	BRONZE, Troy Ounces.	Dec.
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Balance Sept 30 2427.917 81
 2427.917 81
Total 4855.834 62

Approved: Superintendent Melting and Refining. 1914

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, September, 1914

	Time				Conduct	Workmanship
Arnold, R.G.	5	das.	4	hrs. lv.	100	95
Borstadt, G.	7	"	4	" "	100	97
Bush, W.M.		---			100	98
Crary, J.H.	4	"	4	" "	100	97
Dardis, W.N.	6	"	4	" "	100	97
French, H.W.	6	"	4	" "	100	96
"	1	"		sick		
					100	98
Gray, G.B.		---			100	100
Hetrich, J.M.	11	"		leave		
					100	95
Howbert, D.T.		---				
Hume, F.N.	7	"	4	" "	100	98
					100	98
Lindhard, J.A.		---			100	92
Ligon, A.		---			100	98
Lundin, A.H.	5	"	4	" "		
Milson, J.W.	1	"	2	" "		
					100	97
Perry, R.J.	5	"	4	" "	100	97
Presnell, J.H.	5	"	4	" "	100	98
Russell, N.A.	6	"	4	" "	100	95
Schell, E.P.		---			100	98
Spencer, G.N.	4	"	4 $\frac{1}{2}$	" "	100	100
St. John, F.	5	"	4 $\frac{1}{2}$	" "	100	98
Stoddard, X.T.	7	"	4	" "	100	98
Whitaker, S.R.	4	"	4	" "	100	99
Whitehead, H.R.	4	"	4	" "		

GAIN & LOSS in GOLD & SILVER in Melt GOLD Anode Melts,

No. of Melt	No. of Bars	Weight	Before melting			
			Fineness		Fine ounces	
			Gold	Silv	Gold	Silver
1	40	5968.01	.9651	.0262	5759.739	155.98
2	29	6152.54	.9700	.0232	5967.253	142.98
3	7	6162.24	.8682	.1246	5350.233	767.99
4	7	6140.20	.8706	.1211	5345.869	743.83
5	7	6049.95	.8829	.1095	5341.432	662.40
		30472.94			764.526	2473.16

SILVER Anodes

1	17	4944.24	.3545	.5488	2.754	2713.69
2	18	5295.51	.3571	.5464	1.402	2893.93
3	17	4986.81	.3623	.5393	6.938	2689.22
4	15	4541.29	.3606	.5415	7.867	2459.31
5	19	5597.09	.3674	.5534	3.659	3097.41
6	19	5535.61	.3373	.5624	13.230	3113.52
7	18	5511.39	.3781	.5242	21.057	2889.24
8	18	4815.50	.3927	.5055	11.100	2434.36
9	71	4958.30	.3858	.5399	14.055	2677.00
10	27	4976.37	.3352	.5411	16.317	2692.59
11	10	5162.30	.3861	.5351	19.183	2762.21
12	8	4956.00	.3582	.5567	17.393	2759.19
13	5	4976.73	.3825	.5425	19.717	2699.90
14	7	4947.52	.3438	.5622	17.873	2781.51
15	6	4911.06	.3964	.5293	19.069	2599.86
16	9	4898.69	.3917	.5117	19.060	2506.95
17	10	4939.60	.3724	.5468	18.729	2701.27
18	6	4940.98	.3724	.5242	18.077	2590.01
19	9	4997.18	.3716	.5270	18.842	2633.47
20	15	4538.17	.3805	.5049	17.871	2291.31
21	52	4943.20	.3884	.4937	19.045	2440.66
22	25	4967.24	.3742	.5131	18.593	2548.87
23	25	4953.99	.4015	.4884	19.061	2419.38
24	18	4982.00	.3787	.5281	18.9745	2631.16
25	51	4920.60	.3854	.4783	18.6534	2353.43
26	49	4914.50	.3707	.5230	18.2126	2569.95
27	39	4811.90	.3908	.4794	18.9255	2307.01
28	39	4754.68	.3860	.4773	18.3566	2269.36
29	41	4988.99	.3695	.4907	18.43254	2448.14
30	27	4908.69	.3956	.4737	19.2011	2325.31
31	35	4920.33	.3843	.4872	18.90899	2397.13
32	52	4993.80	.3645	.5075	18.80146	2534.38
33	10	4900.06	.3902	.4725	19.12051	2315.21
34	27	4980.09	.3652	.5100	19.19179	2540.06
35	34	5032.56	.3981	.4739	20.03540	2385.10
36	47	5021.42	.3889	.5050	19.53070	2536.10
37	21	4778.40	.3903	.5130	18.64815	2451.46
38	24	4781.02	.3733	.5095	17.84694	2436.16
39	36	4988.65	.3726	.4847	18.59139	2418.10
40	36	4985.36	.3686	.4844	18.37488	2415.09
41	24	5064.57	.3905	.4879	19.77719	2471.12
42	21	5030.43	.3739	.4740	18.80816	2387.03
		209052.82			78769.770	107812.59

Denver Mint, September, 1914.

[illegible]

MELTING AND REFINING DEPARTMENT BALANCES.

OF THE UNITED STATES AT Denver
Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the Mint by him during the month of October, 1914

RECEIVED.	GOLD, Fine Ounces.	Dec.	DELIVERED.	GOLD, Fine Ounces.	Dec.	RECEIVED.	NICKEL, Troy Ounces.	Dec.	DELIVERED.	NICKEL, Troy Ounces.	Dec.
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Balance											
Contained in Gold Deposits	1668 785 575										
Contained in Silver Deposits	84941 591										
Contained in Re-Archip	2 139 587										
Chippings, blanks, etc.	105 827 017										
	93 489 309										
	306 614 066										
	114 723										
<i>James Law</i>											
<i>G. S. S. S. S. S.</i>											

Balance	73 312 806										
Chippings	32 803 294										
Chippings	1562 619 415										
Total	2261 911 808										
Balance											
Contained in Gold Deposits	2427 917 81										
Contained in Silver Deposits	14 028 05										
Contained in Re-Archip	23 402 70										
Contained in blanks, etc.	31 723 94										
	24 07										
<i>G. S. S. S. S.</i>											

Balance											
Contained in Gold Deposits	2427 917 81										
Contained in Silver Deposits	14 028 05										
Contained in Re-Archip	23 402 70										
Contained in blanks, etc.	31 723 94										
	24 07										
<i>G. S. S. S. S.</i>											

Balance	1469 334 48										
Chippings	170 573 51										
Chippings	700 009 52										
Total	2447 096 62										
Balance											
Contained in Gold Deposits	2447 096 62										
Contained in Silver Deposits	14 028 05										
Contained in Re-Archip	23 402 70										
Contained in blanks, etc.	31 723 94										
	24 07										
<i>G. S. S. S. S.</i>											

Approved: Superintendent. 1914 Superintendent Melting and Refining.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, October, 1914.

	Time	Conduct	Workmanship
Arnold, R.G.	---	100	95
Borstadt, G.	---	100	97
Bush, W.M.	1/2 hr. lv.	100	98
Crary, J.H.	4 hrs. "	100	97
Dardis, W.N.	---	100	97
French, H.W.	1 day "	100	96
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	---	100	95
Hume, F.N.	1 hr. lv.	100	98
Lindhard, J.A.	1 day "	100	98
Ligon, A.	---	100	93
Lundin, A.E.	1/2 hr. "	100	98
Milsom, J.W.	2 hrs. "		
Perry, R.J.	---	100	97
Presnell, J.H.	---	100	97
Russell, N.A.	1 1/2 hrs. "	100	98
Schell, E.P.	1 1/2 " "	100	95
Spencer, G.N.	2 das. "	100	98
St. John, F.	5 das. 3 hrs. lv.	100	100
Stoddard, X.T.	---	100	98
Whitaker, S.R.	1 day lv.	100	98
Whitehead, H.R.	---	100	99

GAIN & LOSS in GOLD & SILVER in Melting GOLD Anode Melts:

No. of Melt	No. of Bars	Before Melting				Fine ounces	
		Weight	Fineness			Gold	Silver
			Gold	Silver			
6	11	6130.34	.9493	.0421	5819.693		257.94
7	9	6173.95	.8912	.0925	5502.258		370.88
8	7	6055.68	.8876	.0955	5375.226		578.50
9	11	6081.70	.9741	.1040	5316.051		652.89
10	9	5428.50	.9626	.0304	6225.557		165.14
11	6	5453.34	.8809	.0863	4903.910		525.11
12	6	5481.45	.3737	.1021	4783.793		559.73
13	5	5481.13	.8816	.0872	4831.962		477.83
14	10	5454.50	.9617	.0325	5245.621		178.52
15	6	5565.73	.8914	.0994	4961.555		555.11
16	7	5567.10	.8974	.0948	4936.566		527.84
17	13	5557.11	.9655	.0273	5765.595		151.83
18	8	5514.60	.8882	.1031	4898.082		568.79
19	7	5569.38	.8910	.0984	4962.486		548.25
20	8	5459.42	.8988	.0936	4906.826		511.19
21	8	5570.32	.8971	.0931	4996.999		518.63
22	7	5427.07	.9523	.0385	5168.403		209.03
23	10	5530.34	.8864	.1041	4901.925		575.75
24	22	5594.10	.9675	.0248	5412.402		138.59
25	6	5531.60	.8949	.0925	4950.036		511.81
		112627.36			102425.025		8780.51

SILVER Anodes

43	6	4940.62	.3778	.5169	1866.838		2552.92
4	6	4982.95	.3656	.4860	1821.887		2421.94
5	5	4930.50	.3748	.4811	1847.956		2372.04
6	6	4947.93	.3616	.5208	1788.633		3576.94
7	*	4997.50	.3856	.5043	1927.189		2520.00
8	6	4962.26	.3776	.4919	1875.838		2444.01
9	5	4757.60	.3584	.4941	1705.159		2350.87
50	7	4855.18	.3748	.4891	1819.743		2374.89
1	34	4885.79	.3705	.4742	1810.435		2316.60
2	30	4890.34	.3734	.4789	1820.961		2341.92
3	30	4723.40	.3785	.4737	1787.731		2237.22
4	23	4623.25	.3897	.4698	1801.563		2125.65
5	7	4818.21	.4033	.4650	1943.546		2240.26
6	6	4759.58	.3735	.5011	1777.559		2384.98
7	6	4691.13	.4030	.4653	1890.742		2182.78
8	5	4820.56	.3844	.4599	1852.800		2217.21
9	24	4355.34	.3613	.4829	1573.394		2105.30
60	29	4458.97	.3811	.5320	1698.935		2372.40
1	6	4479.74	.3966	.4571	1776.817		2047.73
2	6	4430.84	.3944	.4595	1747.643		2036.05
3	6	4324.86	.3926	.4854	1698.649		2099.41
4	6	4389.99	.3748	.4814	1646.489		2113.20
5	32	4312.08	.3892	.4904	1678.428		2114.49
6	44	4454.62	.3980	.5209	1773.158		2320.01
7	31	4321.02	.3932	.4690	1699.149		2026.25
8	30	4429.34	.3769	.4865	1669.510		2168.25
9	31	4467.38	.3880	.4649	1733.412		2076.67
70	29	4493.92	.4031	.4546	1811.416		2043.11
Forward		130510.90			49844.458		63180.90

Denver Mint, October, 1914.

Weight	After Melting		Fine ounces		Fine ounces			
	Fineness				Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
6129.41	.9494	.0465	5819.261	285.01		.432	27.17	
6171.16	.8921	.0955	5505.291	589.34	3.035		18.46	
6051.59	.8882	.0975	5375.022	590.03		.264	11.75	
6077.81	.8747	.1040	5316.260	632.09	.209			.80
5427.44	.9627	.0330	5224.996	179.10		.561	13.96	
5448.57	.8807	.1010	4798.555	550.30		5.355	25.19	
5479.99	.8728	.1020	4782.935	558.95		.858		.83
5478.80	.8817	.0865	4830.657	473.91		1.325		3.92
5454.30	.9617	.0330	5245.400	179.99		.221	1.67	
5564.65	.8911	.0993	4958.659	552.56		2.896		.55
5564.57	.8978	.0950	4995.870	528.63		.696	.99	
5556.46	.9655	.0265	5364.762	147.24		.833		4.39
5512.90	.8884	.1005	4897.660	554.04		.422		14.75
5567.23	.8896	.0980	4952.607	545.58		9.879		2.67
5457.94	.8988	.0940	4905.596	513.04		1.230	1.85	
5569.91	.8974	.0950	4998.437	529.14	1.438		10.51	
5425.95	.9528	.0420	5169.845	227.88	1.443		18.85	
5530.34	.8865	.1015	4902.646	561.32	.721			14.43
55.93.00	.9683	.0265	5415.701	148.21	3.299		9.62	
5529.30	.8955	.0905	4951.488	500.40	1.452			11.41
112591.32			102411.648	8846.76	11.595	24.972	140.00	53.75
						11.595	53.75	

Melting loss, Gold
 " gain, Silver
 Recovery for month
 Net loss, Gold
 " gain, Silver

13.377
 36.25
 6.860
 1.36
 6.517
 87.61

4934.90	.3775	.5160	1862.924	2546.40		3.914		6.52
4974.57	.3659	.4875	1820.195	2425.10		1.672	3.16	
4924.99	.3751	.4835	1847.363	2381.23		.493	9.19	
4941.61	.3622	.5220	1789.851	2579.52	1.218		2.58	
4960.43	.3863	.5065	1916.214	2512.45		10.975		7.55
4960.69	.3782	.4935	1876.132	2448.10	.294		4.09	
4751.47	.3584	.4945	1702.926	2349.60		2.233		1.07
4849.11	.3752	.4905	1819.386	2378.48		.357	3.59	
4879.50	.3706	.4725	1808.342	2305.56		2.091		11.04
4884.13	.3723	.4820	1818.361	2354.15		2.600	12.23	
4715.08	.3795	.4730	1789.372	2230.23	1.641			6.99
4616.40	.3908	.4635	1804.089	2139.70	2.526		14.05	
4812.94	.4036	.4670	1942.502	2247.64		1.044	7.38	
4756.12	.3744	.5005	1780.691	2380.43	3.132			4.55
4687.93	.4036	.4665	1892.048	2186.91	1.306		4.13	
4812.69	.3848	.4610	1851.923	2218.65		.877	1.44	
4351.30	.3619	.4840	1574.735	2106.02	1.341		2.72	
4454.49	.3812	.5325	1698.051	2372.01		.884		.39
4476.11	.3971	.4590	1777.463	2054.53	.646		6.80	
4425.57	.3952	.4630	1748.985	2049.03	1.342		12.98	
4319.80	.3930	.4855	1697.691	2097.26		.968		2.15
4383.72	.3743	.4825	1640.826	2115.14		4.663	1.94	
4309.21	.3898	.4950	1679.730	2133.05	1.302		18.56	
4451.14	.3988	.5210	1775.114	2319.04	1.956			.97
4516.55	.3937	.4695	1699.425	2026.62	.276		.37	
4424.06	.3777	.4890	1670.967	2163.36	1.457			4.69
4462.57	.3883	.4670	1732.815	2084.02		.597	7.35	
4490.06	.4030	.4555	1809.494	2045.22		1.922	2.11	
130327.14			49827.605	65249.45	18.437	35.290	114.67	46.12

No. of Melt	No. of Bars	Before Melting				
		Weight	Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
Forward		130510.90			49844.458	63180.90
71	12	4358.12	.3791	.4838	1652.416	2108.27
2	7	4538.24	.3753	.4623	1703.117	2097.95
3	7	4393.96	.3667	.4807	1611.372	2112.04
4	9	4267.00	.3984	.4803	1699.944	2049.55
5	14	4608.30	.4024	.4514	1854.073	2079.96
6	6	4362.32	.3965	.4872	1729.802	2125.37
7	6	4519.68	.3963	.5224	1791.132	2361.06
8	9	4494.03	.3916	.4325	1759.779	1943.87
9	14	4578.73	.3938	.4524	1802.860	2071.25
80	18	4346.44	.3914	.4779	1700.989	2076.90
2 **	29	4521.38	.3933	.4888	1789.969	2224.77
3	5	4525.29	.3850	.4432	1742.137	2005.79
4 **	9	4580.09	.3977	.4464	1821.821	2044.28
6***	11	4642.42	.3919	.4706	1819.186	2184.65
7	15	4592.83	.3895	.4510	1789.129	2071.06
8	13	4445.93	.3982	.4805	1770.374	2136.43
9	12	4472.06	.3985	.4471	1782.226	1999.51
90	14	4509.41	.3809	.4535	1717.748	2045.03
1	19	4575.45	.3714	.4692	1699.457	2146.60
2	11	4340.95	.3786	.5252	1643.425	2279.85
3	12	4519.37	.3984	.4823	1800.712	2179.33
4 ***	4	4435.96	.3480	.4889	1543.537	2168.73
5	5	4387.50	.3811	.4952	1672.485	2172.83
6	5	4486.56	.3920	.4792	1758.942	2149.85
7	6	4497.94	.3618	.4891	1627.376	2199.88
8	6	4444.33	.3681	.4840	1635.962	2151.04
9	6	4480.23	.3544	.4932	1587.622	2209.78
100	31	4324.88	.3981	.4558	1721.793	1971.38
1	33	4533.94	.3755	.4708	1702.811	2134.68
2 ***	5	4475.56	.3630	.4745	1624.793	2123.71
3	6	4552.71	.3536	.4764	1609.774	2169.09
4	11	4502.77	.3471	.5002	1562.699	2252.13
5	6	4472.96	.3608	.4793	1613.884	2143.87
6 ***	6	4499.79	.3691	.4737	1660.937	2131.49
7	6	4477.01	.3570	.4880	1598.303	2184.92
8	9	4449.31	.3725	.4884	1657.438	2172.90
9	8	4477.65	.3626	.4893	1623.557	2190.89
110	18	4435.82	.3894	.4908	1727.574	2176.97
1	14	4366.37	.3930	.4386	1716.070	1915.03
2	14	4564.66	.3927	.4742	1792.423	2164.54
3	12	4557.22	.3868	.4839	1762.507	2204.95
4	16	4506.19	.3788	.5081	1707.111	2289.53
5	19	4387.31	.3977	.4702	1744.884	2063.02
6	12	4570.95	.3491	.4710	1595.954	2152.60
7	21	4395.13	.3815	.4622	1676.871	2031.19
8	12	4543.82	.3894	.4476	1769.556	2033.98
9	12	4449.23	.3778	.4746	1681.146	2111.43
120	13	4330.17	.3573	.5172	1547.203	2239.68
1	12	4481.92	.3634	.4695	1628.591	2104.14
		349821.29			123077.929	167538.85

* Spill -- metal in month's recovery

** Nos. 81 & 85, special melts

*** Contained Hollinger Canadian bars

Weight	After Melting		Fine ounces		Fine ounces			
	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
130327.14			43827.605	63249.45	13.437	35.290	114.67	46.
4352.88	.3798	.4880	1653.883	2115.49	.807		7.22	
4533.77	.3783	.4640	1705.604	2103.66	2.487		8.71	
4538.87	.3676	.4630	1612.613	2118.85	1.241		6.81	
4263.82	.3988	.4880	1700.411	2072.31	.467		22.66	
4522.82	.4030	.4510	1853.324	2074.06		.749		5.
4557.85	.3973	.4880	1731.365	2126.82	1.663		1.25	
4516.22	.3967	.5210	1791.584	2352.95	.452			8.
4489.17	.3922	.4330	1760.652	1943.81	.373			
4577.10	.3989	.4515	1812.073	2066.56	9.213			4.
4344.64	.3925	.4730	1706.271	2055.01	4.282			21.
4547.32	.3927	.4875	1790.279	2216.81	.310			7.
4518.89	.3852	.4435	1740.676	2004.12		1.461		1.
4574.33	.3980	.4465	1820.593	2042.43		1.238		1.
4636.07	.3926	.4750	1820.121	2202.13	.935		17.48	
4588.85	.3904	.4585	1790.706	2103.07	1.577		32.01	
4442.13	.3984	.4870	1789.744	2163.31		.630	26.88	
4469.41	.3987	.4535	1781.953	2026.87		.273	27.36	
4506.42	.3816	.4575	1719.649	2061.68	1.901		16.65	
4570.37	.3721	.4745	1700.654	2168.64	1.177		22.04	
4338.57	.3804	.5285	1650.392	2292.93	6.967		13.08	
4514.80	.3993	.4815	1802.759	2173.87	2.047			5.4
4421.86	.3538	.4940	1564.464	2184.39	20.917		15.66	
4380.96	.3818	.4970	1672.650	2177.33	.165		4.50	
4431.49	.3928	.4790	1760.329	2146.63	1.387			3.2
4492.78	.3631	.4905	1631.328	2203.70	3.952		3.82	
4440.62	.3690	.4840	1638.588	2149.26	2.626			1.7
4474.18	.3554	.4935	1590.123	2203.00	2.501			1.7
4321.41	.3981	.4525	1730.353	1955.43		1.440		15.96
4529.06	.3755	.4700	1700.662	2128.65		2.149		6.08
4457.03	.3642	.4700	1623.250	2094.80		1.443		28.91
4540.58	.3548	.4730	1610.997	2147.69	1.123			21.40
4492.86	.3476	.4985	1564.151	2243.18	1.452			8.95
4467.98	.3621	.4780	1617.855	2135.69	3.971			8.18
4476.16	.3705	.4720	1668.417	2112.74		2.520		18.78
4472.06	.3574	.4880	1598.314	2182.36	.011			2.56
4445.14	.3728	.4890	1657.148	2173.67		.290	.77	
4473.57	.3629	.4905	1623.488	2194.28		.099	3.39	
4453.95	.3894	.4845	1726.580	2148.24		.994		28.73
4363.22	.3943	.4395	1720.441	1917.66	4.371		2.65	
4561.33	.3935	.4730	1794.883	2157.50	2.460			7.04
4555.32	.3973	.4885	1764.275	2216.16	1.768		11.21	
4303.74	.3797	.5065	1710.070	2281.14	2.959			8.39
4365.17	.3987	.4725	1752.752	2071.99	7.868		8.97	
4568.09	.3501	.4700	1599.258	2147.00	3.304			5.80
4390.99	.3884	.4625	1679.114	2030.83	2.243			.36
4541.56	.3998	.4490	1770.300	2034.61	.744		.63	
4444.75	.3787	.4740	1683.226	2106.81	2.080			4.62
4323.27	.3582	.5165	1548.810	2233.27	1.607			6.41
4476.68	.3645	.4705	1631.749	2106.27	3.158		2.13	
135154.756			167623.81	125.403	48.576	48.576	387.53	282.57
449377.30				48.576			282.57	
Melting Gain, Gold & Silver					76.827		84.98	
Recovery for month					55.323		77.86	
Net gain					132.150		162.82	

Nov. 17, 1914.

MELTING AND REFINING DEPARTMENT BALANCES.

OF THE UNITED STATES AT

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent

of the month of March 1914 by him during the month of March 1914

RECEIVED.		GOLD, Fine Ounces.		Dec.		DELIVERED.		GOLD, Fine Ounces.		Dec.		RECEIVED.		NICKEL, Troy Ounces.		Dec.		DELIVERED.		NICKEL, Troy Ounces.		Dec.	
Balance		1654 699.00						131 010.57				370 595.34						137 161.15					
Contained in Gold Deposits		70 479.96																					
Contained in Silver Deposits		2 576.93																					
Contained in		60 223.85																					
Shipments, blanks, etc.		127 018.41																					
By Special		94 103																					
Sweeps		120 937																					
Total		1793 101.953				1924 112 487						1924 112 487						261 608.42					
Balance		1793 101.953				1924 112 487						1924 112 487						261 608.42					
Total		1924 112 487																					
RECEIVED.		SILVER, Fine Ounces.		Dec.		DELIVERED.		SILVER, Fine Ounces.		Dec.		RECEIVED.		BRONZE, Troy Ounces.		Dec.		DELIVERED.		BRONZE, Troy Ounces.		Dec.	
Balance		2497 096.62						2497 096.62						802 930.32						802 930.32			
Contained in Gold Deposits		12 788.75																					
Contained in Silver Deposits		26 359.44																					
Contained in		22 441.18																					
Shipments, blanks, etc.		78 265.87																					
By Special		22 10																					
Sweeps		34 34																					
Total		2497 096.62				1924 112 487						1924 112 487						261 608.42					
Balance		2497 096.62				1924 112 487						1924 112 487						261 608.42					
Total		1924 112 487																					
RECEIVED.		SILVER, Fine Ounces.		Dec.		DELIVERED.		SILVER, Fine Ounces.		Dec.		RECEIVED.		BRONZE, Troy Ounces.		Dec.		DELIVERED.		BRONZE, Troy Ounces.		Dec.	
Balance		2497 096.62						2497 096.62						802 930.32						802 930.32			
Contained in Gold Deposits		12 788.75																					
Contained in Silver Deposits		26 359.44																					
Contained in		22 441.18																					
Shipments, blanks, etc.		78 265.87																					
By Special		22 10																					
Sweeps		34 34																					
Total		2497 096.62				1924 112 487						1924 112 487						261 608.42					
Balance		2497 096.62				1924 112 487						1924 112 487						261 608.42					
Total		1924 112 487																					

Book 1464.33448.
M.J. 291.07062
736.69.52

Balance 2497 096.62
Total 1924 112 487

Balance 2497 096.62
Total 1924 112 487

Balance 802 930.32
Total 802 930.32

Approved: Superintendent.

191
Superintendent Melting and Refining.

GAIN & LOSS in GOLD & SILVER in Melting GOLD Anode Melts

No. of Melt	No. of Bars	Weight	Before Melting		After Melting	
			Fineness		Purity	
			Gold	Silver	Gold	Silver
26	7	5573.55	.9063	.0749	5050.814	417.40
7	7	5824.50	.9585	.0340	5582.943	192.37
8	6	5550.08	.8874	.0948	4935.454	523.00
9	25	5661.77	.9521	.0419	5390.402	227.22
30	7	5542.12	.8966	.0887	4969.999	451.33
1	10	5486.24	.9038	.0666	4958.246	365.48
2	7	5678.97	.8731	.0788	4950.151	447.25
3	12	5904.42	.9231	.0699	5440.652	406.11
4	6	5313.27	.8989	.0759	4722.934	498.42
5	7	5524.99	.8872	.0725	4901.890	400.42
6	12	6178.16	.8737	.0947	5397.780	585.86
7	7	5584.00	.9379	.0546	5237.274	304.19
		67811.07			61535.081	4752.35

SILVER ANODES

122	15	4509.96	.3756	.5133	1684.878	2814.73
3	14	4409.99	.3689	.5255	1628.854	2788.47
4	16	4537.73	.3764	.4573	1708.002	2826.01
5	15	4478.52	.3676	.5170	1646.087	2835.83
6	10	4515.94	.3839	.4480	1733.603	2782.05
7	8	4457.05	.3569	.4792	1590.618	2866.72
8	4	4415.51	.3651	.4746	1611.968	2803.72
9	4	4433.44	.3709	.4800	1644.570	2788.12
130	7	4477.53	.3575	.4929	1800.540	2677.18
1	5	4434.95	.3776	.4787	1674.697	2762.64
2	5	4477.43	.3755	.4738	1681.165	2796.60
3	12	4625.92	.3600	.5160	1669.077	2956.85
4	11	4459.35	.3797	.4782	1693.284	2766.73
5	18	4395.88	.3870	.4448	1701.509	2694.21
6	10	4529.06	.3490	.5051	1580.580	2947.60
7	10	4619.49	.3992	.4622	1797.950	2814.50
8	11	4499.47	.3885	.4438	1747.985	2751.26
9	11	4518.52	.3587	.4799	1620.235	2898.31
140	18	4527.82	.3756	.4969	1700.549	2827.58
1	6	4470.52	.3671	.4870	1641.052	2829.97
2	19	4368.89	.3562	.4786	1556.190	2812.68
3	23	4475.69	.3766	.4918	1628.579	2847.39
4	12	4547.99	.3820	.4600	1604.380	2943.74
5	16	4335.52	.3954	.4252	1714.575	2620.93
6	22	4622.47	.3576	.4730	1685.121	2937.58
7	11	4447.96	.3779	.4653	1690.947	2756.12
8	12	4624.68	.3693	.4760	1800.597	2824.24
Forward		121023.27			45048.857	35974.61

[illegible][illegible]

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
Forward		121023.27			45048.857	57938.01
149	6	4478.00	.3592	.4983	1608.370	2222.72
150	13	4666.98	.3635	.4780	1719.760	2230.71
1	11	4386.82	.3764	.4417	1652.433	1937.73
2	12	4535.59	.3606	.4645	1642.930	2115.96
3	11	4557.53	.3692	.4517	1773.709	2058.49
4	10	4559.26	.3630	.4674	1746.003	2131.02
5	7	4520.89	.3624	.4681	1774.057	2107.19
6	5	4493.18	.3542	.4870	1591.388	2138.31
7	13	4624.07	.3843	.4375	1777.051	2023.03
8	13	4515.94	.3737	.4901	1697.459	2213.33
9	12	4400.48	.3947	.4802	1736.947	2012.93
160	14	4581.75	.3861	.4703	1762.036	2154.72
1	5	4314.64	.3822	.5437	1649.003	2345.38
2	15	4558.68	.3886	.5053	1771.201	2303.46
3	25	4463.61	.3779	.4775	1686.937	2131.43
4	15	4452.00	.3655	.4529	1627.342	2012.24
5	26	4384.34	.3606	.4920	1591.184	2157.30
6	8	4501.09	.3517	.4879	1583.110	2196.18
7	5	4456.27	.3491	.4851	1555.751	2161.83
8	5	4473.27	.3584	.4910	1603.437	2195.50
9	5	4447.03	.3381	.4865	1641.370	2074.68
170	5	4486.46	.3649	.4900	1637.328	2198.37
1	6	4500.48	.3582	.4772	1612.134	2147.77
2	5	4483.04	.3647	.4994	1634.961	2239.00
3	5	4471.46	.3735	.5023	1670.254	2246.05
5	12	4566.08	.3710	.4828	1693.909	2204.29
4	12	4494.60	.3674	.4962	1651.044	2330.42
6	13	4714.75	.3891	.4442	1834.381	2094.06
7	10	4400.03	.3569	.4740	1570.147	2085.51
8	6	5430.21	.3692	.5012	2004.737	2721.57
9	6	5464.07	.3747	.4828	2047.453	2638.32
180	8	5484.08	.3757	.5029	2060.203	2758.32
1	7	5487.91	.3736	.4823	2050.356	2646.90
2	8	5637.19	.3474	.5690	1959.662	3207.69
3	6	5499.67	.3701	.5095	2035.653	2801.84
4	6	5554.35	.3837	.5088	2131.430	2826.04
5	8	5498.39	.3551	.5050	1952.579	2776.64
		295587.36			109772.897	142839.60

OF THE UNITED STATES AT

Denver

1440.15.28 Purch. Sil
139.119.78 M.T. 1
695.369.58 Unwrt

1873
J. W. Melton, Superintendent Melting and Refining

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, December, 1914.

	Time,	Conduct	Workmanship
Arnold, R.G.	---	100	95 -7
Borstadt, G.	---	100	97 8
Bush, W.M.	---	100	98
Crary, J.H.	3 1/2 hrs lv.	100	97 8
Dardis, W.N.	---	100	97
French, H.W.	---	100	96
Gray, C.B.	---	100	98
Hetrich, J.M.	---	100	100
Howbert, D.T.	1 day sick	100	95
Hume, F.N.	---	100	98
Ligon, A.	---	100	93 4-5
Lindhard, J.A.	3 1/2 hrs. without pay	100	98
Lundin, A.H.	---	100	98
Milsom, J.W.	5 hrs. lv.		
Perry, E.J.	---	100	97 8
Fresnell, J.H.	---	100	97 8
Russell, M.A.	---	100	98
Schell, E.P.	---	100	95
Spencer, G.M.	6 1/2 hrs. lv.	100	98
"	1 1/2 " without pay		
St. John, F.	2 das. 6 hrs. lv.	100	100
Stoddard, X.T.	1 day sick	100	98
Whitaker, S.R.	---	100	98
Whitehead, H.R.	---	100	99

GAIN & LOSS in GOLD & SILVER in Melting GOLD Anodes

No. of Melt	No. of Bars	Weight	Before Melting		Fine ounces	
			Fineness		Gold	Silver
			Gold	Silver		
38	10	5958.61	.8714	.0838	5192.215	489.03
9	16	5844.84	.8754	.0751	5116.824	439.00
40	15	6058.90	.9418	.0512	5706.437	310.37
1	16	6150.50	.9436	.0495	5803.392	304.84
2	7	5564.66	.8761	.0828	4875.061	460.45
4 *	5	5581.80	.8801	.0961	4912.453	536.59
5	14	5275.33	.9384	.0534	4950.475	281.84
6	6	5719.15	.8830	.1008	5050.189	576.55
7	10	6088.06	.9325	.0599	5676.671	364.93
8	7	5923.47	.8826	.1029	5228.082	609.60
9	15	5932.78	.9457	.0484	5610.368	287.08
50	6	5558.63	.8819	.1026	4902.323	570.37
1	7	5668.36	.8762	.1042	4966.946	590.45
2	6	5533.70	.8734	.1036	4833.093	573.47
3	6	5610.80	.8736	.1094	4901.590	613.77
4	6	5536.83	.8837	.0930	4893.130	514.90
5	6	5613.96	.8837	.0936	4961.154	526.87
7 **	6	5585.78	.8865	.0915	4951.666	511.16
		103206.16			92532.269	8571.05

* No.43, Special melt

** No.56, Melted in January

Sweeps recoveries on Gold & Silver bar anodes complete to Dec.1, 1914:
Gold, 34.962; Silver, 47.33

SILVER ANODES

186	5	5466.61	.3645	.4999	1992.612	2732.59
7	5	5491.25	.3571	.4990	1961.388	2740.24
8	5	5448.56	.3686	.4820	2008.401	2626.01
9	6	5536.75	.3602	.4836	1994.406	2677.45
190	45	5542.73	.3687	.4868	2043.324	2698.33
1	32	5478.74	.3632	.4996	1989.838	2736.78
2	11	5261.55	.3852	.4790	2026.691	2520.05
3	10	5336.80	.3607	.4835	1924.789	2580.10
4	7	5578.38	.3566	.4867	1989.446	2715.24
5	11	5368.10	.3613	.5141	1939.565	2759.79
6	9	5500.90	.3589	.5452	1974.100	2999.19
7	10	5552.75	.3586	.5472	1991.491	3038.49
8	16	5500.49	.3514	.4956	1932.850	2725.78
9	7	5473.47	.3660	.5338	2002.917	2921.71
200	11	5311.75	.3777	.4657	2006.231	2473.70
1	29	5581.13	.3565	.5012	1989.908	2797.50
2	9	5533.75	.3503	.5410	1938.307	2993.89
3	9	5503.11	.3742	.5050	2059.187	2779.02
4	10	5440.83	.3724	.5058	2026.322	2751.83
5	10	5596.60	.3537	.5178	1979.539	2897.13
6	7	5505.70	.3539	.5331	1948.677	2935.25
7	7	5518.23	.3467	.5397	1913.102	2978.45
8	7	5552.13	.3568	.5296	1980.915	2940.62
9	7	5412.53	.3454	.5454	1869.620	2952.06
210	8	5314.43	.3661	.4745	1946.557	2522.01
1	10	5455.18	.3572	.4899	1948.605	2672.50
2	6	5542.99	.3653	.4922	2024.685	2727.96
3	16	5586.84	.3727	.4850	2082.351	2709.44
Forward		153392.28			55484.824	77603.11

Denver Mint, December, 1914.

Weight	After Melting		Fine ounces		Fine ounces			
	Fineness		Gold	Silver	Gold		Silver	
	Gold	Silver			Gain	Loss	Gain	Loss
5966.26	.8716	.0865	5191.476	515.21				
5842.72	.8757	.0785	5116.469	458.65		.739	16.18	
6058.88	.9425	.0510	5710.494	309.00	4.057	.355	19.65	
6150.02	.9436	.0520	5803.158	319.80				1.37
5561.82	.8762	.0860	4873.266	478.31		.234	14.96	
5578.84	.8803	.0970	4911.052	541.14		1.795	17.88	
5275.00	.9385	.0545	4950.587	287.48		1.401	4.55	
5717.97	.8830	.1010	5048.967	577.51	.112		5.64	
6005.11	.9329	.0595	5676.799	362.06		1.222	.96	
5921.91	.8832	.1030	5230.230	609.95		.072		2.87
5931.67	.9458	.0490	5610.173	290.65	2.148		.35	
5556.63	.8822	.1065	4902.058	591.78		.195	3.57	
5666.68	.8764	.1075	4966.278	609.16		.265	21.41	
5531.48	.8740	.1020	4834.513	564.21	1.420	.668	18.71	
5608.14	.8733	.1100	4900.392	616.89				9.26
5533.14	.8843	.0945	4892.955	522.88		1.198	3.12	
5611.55	.8840	.0950	4960.610	533.09		.175	7.98	
5585.63	.8870	.0930	4952.679	519.27		.544	6.42	
103171.45			92532.156	8707.04	1.013		8.11	
					8.750	8.863	149.49	13.50
						8.750	13.50	
						0.113		
							135.99	
						7.152	1.43	
						7.039	137.42	

5454.84	.3652	.5025	1991.888	2740.75		.724	8.16
5487.89	.3579	.5015	1964.115	2752.17	2.727		11.93
5444.55	.3694	.4830	2011.216	2629.71	2.815		3.70
5521.55	.3612	.4845	1997.995	2680.03	3.589		2.58
5538.80	.3691	.4880	2044.371	2702.93	1.047		4.60
5475.57	.3635	.4995	1990.369	2735.04	.531		1.74
5259.31	.3859	.4785	2029.567	2516.57	2.876		3.48
5331.56	.3608	.4820	1923.626	2569.81		1.163	10.29
5573.41	.3570	.4860	1989.707	2708.67	.261		6.57
5363.97	.3620	.5150	1941.757	2762.44	2.192		2.65
5495.86	.3596	.5430	1976.311	2984.25	2.211		14.94
5549.71	.3593	.5455	1994.010	3027.36	2.519		11.13
5495.15	.3522	.4970	1935.391	2731.08	2.541		5.30
5467.55	.3670	.5335	2006.590	2916.93	3.673		4.78
5307.13	.3781	.4640	2009.279	2462.50	3.048		11.20
5576.99	.3578	.4990	1995.447	2782.91	5.539		14.59
5529.86	.3508	.5360	1939.874	2964.00	1.567		29.89
5497.01	.3750	.5010	2061.378	2754.00	2.191		25.02
5437.71	.3728	.5040	2027.178	2740.60	.856		11.23
5595.63	.3543	.5170	1981.823	2891.90	2.284		5.23
5504.65	.3547	.5310	1952.499	2922.96	3.822		12.29
5514.62	.3473	.5385	1915.227	2969.62	2.125		8.83
5549.64	.3572	.5280	1982.331	2930.20	1.416		10.42
5408.56	.3455	.5450	1868.657	2947.66		.963	4.40
5309.76	.3675	.4745	1951.336	2519.48	5.779		2.53
5451.13	.3582	.4905	1952.594	2673.77	3.989		1.27
5535.88	.3670	.4925	2031.667	2726.42	6.982		1.54
5582.61	.3740	.4865	2087.896	2715.93	5.545		6.49
5554.099			5554.099	77459.69	72.125	2.850	46.68 190.10

Before melting

Forward		153392.28			55484.824	77603.11
214	15	5383.85	.3817	.4655	2055.145	2506.31
5	15	5535.10	.3652	.5050	2021.276	2795.03
6	21	5504.08	.3734	.4622	2055.037	2544.08
7	10	5502.65	.3631	.5011	1998.079	2757.33
8	10	5357.14	.3733	.5028	1999.718	2693.59
9	9	5539.57	.3711	.4928	2055.995	2729.79
220	9	5423.38	.3789	.4911	2054.716	2663.36
1	9	5482.11	.3708	.4976	2032.529	2727.83
2	9	5438.67	.3793	.5046	2062.914	2744.31
3	7	5466.48	.3532	.5258	1930.677	2874.14
4	25	5569.15	.3776	.4565	2102.805	2542.29
5	22	5510.50	.3753	.4825	2068.055	2659.14
6	9	5473.35	.3635	.5138	1989.460	2812.17
7	12	5493.03	.3684	.5241	2023.668	2878.86
8	12	5467.85	.3576	.5318	1955.175	2907.94
9	10	5482.89	.3643	.5297	2000.247	2904.32
230	7	5520.93	.3734	.5157	2061.779	2847.26
1	6	5468.67	.3739	.5398	2044.847	2951.73
2	7	5520.54	.3729	.5210	2058.672	2876.22
3	8	5508.44	.3674	.5421	2023.934	2986.16
4	37	5507.58	.3547	.4814	1953.561	2651.33
5	36	5404.44	.3865	.4725	2082.830	2553.35
6	23	5344.78	.3920	.4853	2095.134	2594.12
7	6	5443.82	.3608	.5042	1964.381	2744.90
8	5	5502.84	.3667	.5031	2018.006	2768.62
		290244.12			106199.464	146317.29

153368.30

After melting

55554.099	77459.69	72.125	2.850	46.68	190.10
2055.793	2520.64	.648			
2025.488	2784.90	4.212		14.33	
2057.706	2548.08	2.669			10.13
1999.170	2740.88	1.091		4.00	
1999.412	2681.94				18.45
2060.641	2719.09	4.646	.306		11.65
2056.336	2645.05	.620			10.70
2032.660	2725.73	.131			18.31
2064.509	2736.91	1.595			2.10
1933.771	2859.68	3.094			7.40
2102.634	2557.53				14.46
2067.690	2867.89		.171	15.04	
1989.124	2798.23		.365	8.75	
2026.328	2900.65	2.860	.336		13.94
1955.863	2908.39	.688		21.77	
2001.844	2918.10	1.597		.45	
2064.401	2846.68	2.622		13.78	
2044.564	2952.04		.283	.31	.58
2057.293	2880.65		1.379	4.43	
2024.107	2991.84	.173		5.68	
1953.600	2652.49	.039		1.16	
2088.134	2549.40		.696		3.95
2095.906	2593.17	.772			.95
1967.393	2742.60	3.012			2.30
2017.894	2773.91		.112	5.29	
106295.360	146155.94	102.394	6.498	141.67	303.02
		6.498			141.67
		95.896			
		20.974			161.35
		116.870			27.50
					133.85

Melting gain, Gold

" loss, Silver

Recoveries for month

Net melting gain, Gold

" " loss, Silver

Jan. 12, 1915.

MELTING AND REFINING DEPARTMENT BALANCES.

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the _____ by him during the _____, 191

RECEIVED. GOLD, Fine Ounces, Dec. DELIVERED. GOLD, Fine Ounces, Dec. NICKEL, Troy Ounces, Dec. NICKEL, Troy Ounces, Dec.

Balance Contained in Gold Deposits Contained in Silver Deposits Contained in Clippings, blanks, etc.

Ingots Bars, Fine Bars, Standard Bars, Unparted Bars Sweeps

30266.718
11,085.264
1017,292.074

Balance Total

1950 717 047

RECEIVED. SILVER, Fine Ounces, Dec. DELIVERED. SILVER, Fine Ounces, Dec.

Ingots Bars, Fine Bars, Standard Bars, Unparted Bars Sweeps

Balance Total

1287

BRONZE, Troy Ounces, Dec. DELIVERED. BRONZE, Troy Ounces, Dec.

Ingots Bars

Balance Total

621 875 12

Total 235422 Balance Total 2341345

M.S. 254,200.84
A.S. 1440,115.28
Unk 647,032.41

Balance Total

1006326.72

Approved: _____, Superintendent Melting and Refining.

GAIN & LOSS in GOLD & SILVER in Melting GOLD Anodes

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
56 *	6	5598.78	.8896	.0888	4980.613	496.98
9 **	8	5618.46	.8809	.0961	4949.041	539.88
60	7	5635.59	.8840	.0939	4981.583	529.07
1	6	5776.22	.8899	.1010	5140.351	563.14
2 **	6	5750.36	.8855	.1060	5091.654	609.70
4	6	5615.40	.8845	.1036	4966.759	563.02
5	6	5628.42	.8873	.1009	4994.174	567.83
6 **	8	5728.92	.8876	.0993	5138.550	574.80
		45412.05			40342.725	4487.37

* No. 57 in December

** Nos. 58, 63, and 67 -- Special

SILVER Anodes

239	8	5480.81	.3833	.4621	2101.127	2552.88
240	6	5295.20	.3633	.4936	1923.777	2613.65
1	8	5484.49	.3806	.4725	2087.197	2521.59
2	8	5556.60	.3672	.5870	2040.072	3261.73
3	8	5477.77	.3637	.5869	1992.128	3214.97
4	10	5386.45	.3658	.5552	1970.521	2990.63
5	10	5540.50	.3511	.5107	1945.397	2829.50
6	6	5602.15	.3585	.5504	2008.395	3083.37
7	7	5528.59	.3717	.5361	2055.043	2964.01
8	7	5564.49	.3810	.5460	2008.758	3033.07
9	7	5566.06	.3708	.5379	2063.975	2993.26
250	26	5391.62	.3783	.4951	2039.467	2669.29
1	19	5507.18	.3621	.4826	1994.216	2557.67
2	15	5408.29	.3781	.5057	2044.635	2734.63
3	8	5483.29	.3702	.4642	2030.009	2545.43
4	10	5519.88	.3624	.5199	2000.709	2869.82
5	9	5536.04	.3610	.5222	1998.741	2890.86
6	9	5493.63	.3729	.5223	2048.862	2869.46
7	8	5499.72	.3699	.5130	2034.340	2821.53
8	6	5465.00	.3562	.4810	1946.696	2628.69
9	5	5510.76	.3645	.5235	2008.622	2894.55
260	7	5440.29	.3890	.4833	2116.163	2629.04
1	8	5426.82	.3794	.4631	2059.054	2513.18
2	8	5545.14	.3509	.5707	1945.986	3164.90
3	8	5484.85	.3523	.5975	1932.439	3277.00
4	8	5501.20	.3545	.5671	1950.190	3119.94
5	8	5411.43	.3638	.5693	1963.751	3080.09
6	9	5426.59	.3542	.5834	1922.332	3166.04
7	14	5524.53	.3690	.4917	2037.690	2716.35
8	18	5605.97	.3781	.4947	2119.750	2773.02
9	26	5500.30	.3716	.4847	2042.971	2666.16
270	16	5554.98	.3730	.4733	2072.076	2629.49
Forward		175720.62			64510.094	91421.54

Before Melting

Silver Anodes

Forward		175720.62			64510.094	91.421.54
271	5	5548.90	.3580	.5822	1986.477	3230.43
2	6	5527.37	.3632	.5775	2007.740	3192.18
3	7	5477.82	.3641	.5729	1994.209	3138.39
4	7	5493.48	.3636	.5726	1997.382	3145.81
5	11	5548.43	.3700	.5204	2052.701	2887.60
6	10	5534.35	.3604	.5693	1994.523	3149.88
7	16	5398.03	.3793	.4878	2047.425	2632.31
8	31	5577.20	.3762	.4862	2098.156	2711.42
9	17	5451.34	.3592	.5337	1957.980	2909.32
280	16	5513.65	.3523	.5151	1942.794	2940.05
1	15	5527.72	.3523	.5157	1947.539	2850.60
2	15	5436.15	.3526	.4831	1916.553	2626.19
3	19	5470.10	.3642	.4800	1992.013	2625.27
4	12	5544.48	.3542	.4946	1963.699	2742.38
5	5	5360.39	.3713	.4848	1990.408	2598.74
6	15	5543.58	.3565	.5124	1976.142	2832.43
7	13	5554.20	.3630	.4960	2127.025	2755.05
8	10	5388.90	.3741	.4826	2016.054	2600.51
9	10	5578.15	.3619	.4532	2129.675	2527.47
290	37	5551.49	.3573	.4841	1983.630	2687.41
1	5	5536.48	.3685	.5723	2040.164	3168.85
2	6	5535.30	.3687	.5719	2040.984	3165.74
3	5	5541.08	.3695	.5734	2047.472	3177.45
		302359.21			110760.839	157824.02

After Melting

178558.81

64559.834

91337.86

56.782

7.042

87.23 170.9

5543.76	.3588	.5880	1990.177	3228.21	3.700			2.22
5523.75	.3649	.5775	2015.616	3189.96	7.876			2.22
5473.61	.3642	.5725	1993.488	3133.84		.721		4.75
5439.54	.3640	.5720	1992.192	3140.01	.810			5.80
5545.18	.3704	.5215	2053.193	2890.76	.492		3.16	
5531.09	.3606	.5695	1994.511	3149.93		.012	.07	
5393.01	.3797	.4880	2047.735	2631.78	.300			1.53
5573.49	.3763	.4875	2096.937	2716.53		1.229	5.16	
5480.31	.3596	.5340	1960.111	2910.73	2.131		1.41	
5511.70	.3526	.5160	1943.425	2844.03	.631		3.98	
5522.39	.3527	.5160	1947.711	2849.50	.172			1.10
5434.14	.3630	.4815	1918.251	2616.53	1.698			9.66
5466.15	.3649	.4790	1994.598	2618.28	2.585			6.99
5539.33	.3550	.4950	1966.675	2742.23	2.976			.12
5356.46	.3727	.4850	1996.348	2597.87	5.940			.87
5540.37	.3572	.5120	1979.020	2836.66	2.878			1.77
5520.96	.3838	.4980	2130.458	2764.37	3.433		9.32	
5383.55	.3748	.4820	2017.754	2594.87	1.700			5.64
5572.73	.3827	.4550	2132.683	2555.59	3.008		8.12	
5545.53	.3576	.4955	1983.092	2692.36		.538	4.95	
5533.72	.3690	.5730	2041.942	3170.82	1.778		1.97	
5531.73	.3692	.5700	2042.314	3153.08	1.330			12.66
5532.30	.3699	.5720	2042.691	3168.02	1.219			9.43

332106.83

110852.756

157513.72

101.439

9.542

125.37 235.67

Melting Gain, Gold

9.542

125.37

" Loss, Silver

91.897

110.30

Month's recoveries

11.190

15.47

Net Melting gain, Gold

103.087

" " loss, Silver

94.83

February 6, 1915.

Joel Wilson
Supt. Melting & Refining Dept.

MELTING AND REFINING DEPARTMENT BALANCES.

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the Mint Denver by him during the month of February, 1915.

RECEIVED. GOLD, Fine Ounces. Dec. DELIVERED. GOLD, Fine Ounces. Dec. RECEIVED. NICKEL, Troy Ounces. Dec. DELIVERED. NICKEL, Troy Ounces. Dec.

Balance Feb. 1 * 1663.508 880 Ingots Bars, Fine 228.635 002 Bars, Standard 621.875 12 Bars

Balance retained in Gold Deposits 78.682 285 Bars, Standard contained in Silver Deposits 5335 858 Bars, Unparted contained in As Definite 19 129 868 Bars

Spings, blanks, etc. 129 960 Sweeps 242 292 48 375

* M3.B 212,893.370
Wmgs 1450.615.610

Total 1767 077 518 Balance Feb. 27 1538 442 016
Total 1767 077 518 RECEIVED. BRONZE, Troy Ounces. Dec. DELIVERED. BRONZE, Troy Ounces. Dec.

Balance Feb. 1 * 2341 348 58 Ingots Bars, Fine 11 162 96 Bars, Standard 43 139 52 Bars, Unparted 13 484 98 Bars

contained in Silver Deposits 39 76 Sweeps 6428 64

* M3.D 204,200.84
Bal. d. 1440.115.28
Wmgs 447.032.41

Total 2415 604 44 Balance Feb. 27 2415 604 44
Total 2415 604 44

M3.D 241,547.45
Bal. d. 1440.115.28
Wmgs 447.032.41

Balance 463 504 92
Total 1163 662 62

Approved: Superintendent 181 Superintendent Melting and Refining

GAIN & LOSS in GOLD AND SILVER in Melting Gold Anodes

No. of Melt	No. of Bars	Weight	Before Melting		Fine ounces	
			Fineness Gold	Silver	Gold	Silver
68	7	5674.49	.8285	.0985	5041.909	546.31
9	6	5618.25	.8909	.1034	5005.761	565.98
70	7	5604.15	.8865	.1044	4967.560	584.66
1 *	7	5652.28	.8951	.1014	5031.140	571.06
3	6	5538.30	.8268	.1064	4911.751	589.44
4	7	5587.21	.8861	.1003	4950.582	560.48
5	6	5538.59	.8859	.1000	4905.713	583.75
6	6	5785.88	.8841	.0993	5113.591	577.45
7 *	6	5780.79	.8841	.1036	5111.127	616.87
9	4	5903.22	.9213	.0577	3592.475	235.20
		54832.24			42338.690	5405.55

* Nos. 72 & 73, Specials

Silver Anodes

294	5	5572.18	.8682	.5905	2051.541	3291.06
5	7	5375.79	.8635	.5894	1934.454	2994.01
6	6	5509.69	.8675	.4914	2035.680	2707.57
7	5	5464.66	.8772	.5306	2061.432	2935.10
8	5	5283.76	.8679	.6065	1879.140	2692.82
9	5	5433.09	.8597	.5223	1954.479	2837.56
300	16	5506.74	.8675	.5374	2034.004	3134.70
1	16	5501.31	.8654	.5766	2010.204	3173.28
2	17	5504.31	.8651	.5559	2009.592	3059.30
3	16	5585.60	.8702	.5708	2042.201	3152.35
4	38	5613.13	.8656	.4915	2023.770	2766.32
5	9	5547.28	.8746	.5115	2072.122	2837.13
6	15	5505.48	.8644	.4628	2008.120	2682.27
7	6	5556.98	.8755	.5011	2032.542	2784.72
8	5	5539.20	.8714	.5530	2064.605	2974.96
9	5	5560.73	.8704	.5432	2059.669	3147.34
310	5	5467.85	.8720	.6069	2034.253	2792.12
1	5	5572.32	.8750	.8697	2072.222	3175.23
2	35	5607.55	.8604	.4434	2153.610	2462.59
3	6	5546.37	.8772	.4813	2092.418	2587.09
4	8	5554.83	.8626	.4709	2012.922	2615.41
5	6	5359.36	.8817	.4354	2046.483	2592.40
6	12	5240.35	.8736	.4964	1857.680	2601.43
7	13	5553.25	.8687	.5420	2036.345	2821.16
8	14	5536.29	.8737	.4971	1986.879	2853.71
9	12	5518.40	.8629	.4937	2041.463	2724.60
320	6	5440.54	.8475	.5705	1890.546	3103.89
1	7	5443.57	.8757	.4769	2045.483	2595.33
2	7	5493.34	.8513	.4019	1932.312	2645.41
3	8	5572.25	.8732	.4684	2072.340	2547.17
4	14	5546.95	.8810	.4835	2115.226	2613.36
5	11	5592.33	.8727	.4690	2084.202	2610.75
6	22	5537.01	.8643	.4635	2017.120	2563.30
7	6	5456.48	.8855	.4766	2032.579	2600.77
8	6	5514.07	.8702	.4833	2041.422	2587.75
9	7	5327.65	.8306	.4783	1804.591	2547.83
330	5	5530.95	.8645	.5694	2015.641	3142.09
1	5	5540.58	.8600	.5753	1994.657	3127.35
2	5	5516.69	.8654	.5726	2012.991	3122.72
3	5	5479.60	.8673	.5674	2012.805	3103.32
4	30	5545.92	.8732	.4917	2009.526	2726.50
5	29	5552.05	.8814	.4773	2119.603	2622.62
		230874.90			85172.675	117802.72

Denver, Colo., March 5th, 1915.

Joel W. Milson
Supt. M. & R. Dept.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Absence, Conduct, and Workmanship Account, January, 1915.

	Time	Conduct	<i>Sum</i> Workmanship
Arnold, R.G.	---	100	97
Borstadt, G.	---	100	98
Bush, W.M.	---	100	98
Crary, J.H.	1 day sick	100	98
Dardis, W.N.	---	100	97
French, H.W.	---	100	96
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Hume, F.N.	---	100	98
Ligon, A.	---	100	94
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	98
Milsom, J.W.	---	100	98
Perry, R.J.	---	100	98
Presnell, J.H.	---	100	98
Russell, N.A.	---	100	98
Schell, E.P.	2 hrs. lv.	100	95
Spencer, G.N.	2 das. sick	100	98
"	1 da. 1 hr. leave		
St. John, F.	1½ hrs. leave	100	100
Stoddard, X.T.	---	100	98
Whitaker, S.R.	---	100	98
Whitehead, H.R.	1½ hrs. leave	100	99
Willan, W.	---	100	93

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, February, 1915.

	Time	Conduct	Workmanship
Arnold, R.C.	---	100	97 - 8
Borstadt, G.	1 hr. leave	100	98
Bush, W.L.	---	100	98
Cravy, J.H.	---	100	98
Dardis, W.M.	1 da. leave	100	97
"	2 das. sick	---	---
French, H.W.	---	100	96
Gray, G.E.	1 da. leave	100	98
Hetrich, J.M.	3 hrs. "	100	100
Hume, F.H.	---	100	98
Ligon, A.	---	100	95 - 7
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	98
Milson, J.W.	---	100	98
Perry, R.J.	---	100	98
Presnell, J.H.	3 das. sick	100	98
Russell, R.A.	---	100	98
Schell, E.P.	1 da. 2 hrs. leave	100	95
Spencer, G.H.	3 das. 2 1/2 hrs. "	100	98
St. John, F.	5 1/2 hrs. leave	100	100
Stoddard, K.T.	---	100	98
Whitaker, S.R.	1-day leave	100	98
Whitehead, H.R.	---	100	99
Willen, W.	1 1/2 hrs. leave	100	94 - 7

Liberty Bell Bars used in Anode Melts since starting the Refinery
after last settlement, up to January 15, 1915.

	Number	Silver Anode Melt No.	Gross Weight	Fineness Gold	Silver	Fine ounces Gold	Silver
Silver Deposits 1913	418	153	939.51	074 $\frac{1}{2}$	801 $\frac{1}{2}$	69.993	753.01
	9	164	986.14	074 $\frac{3}{4}$	799	73.713	757.92
	420	262	903.90	074 $\frac{3}{4}$	800	67.566	725.12
	1	159	618.23	075	799 $\frac{1}{2}$	46.367	494.27
	3	178	952.33	044 $\frac{1}{2}$	673	42.140	640.91
	4	162	769.44	044 $\frac{1}{2}$	670 $\frac{1}{2}$	34.047	515.90
	430	221	935.92	076 $\frac{3}{4}$	851	71.831	796.46
	1	263	947.31	077	851	72.942	806.16
	2	264	955.60	076 $\frac{3}{4}$	851	73.342	813.21
	3	178	949.02	077	851	73.074	807.61
	4	178	1015.04	076 $\frac{3}{4}$	851	77.904	863.79
	7	214	1005.45	046 $\frac{1}{2}$	644 $\frac{1}{2}$	46.502	643.01
	8	212	1092.85	046 $\frac{1}{2}$	644 $\frac{1}{2}$	50.544	704.34
	444	275	1047.50	151	685	158.172	717.53
	5	179	1008.53	151 $\frac{1}{2}$	685 $\frac{1}{2}$	152.540	691.34
	450	213	904.25	028 $\frac{1}{2}$	362 $\frac{1}{2}$	25.545	327.79
	1	281	919.33	028 $\frac{1}{2}$	363	26.200	333.71
	2	279	666.22	029	363 $\frac{1}{2}$	19.320	242.17
	3	280	967.89	030	366	23.036	354.24
	4	211	1068.19	029 $\frac{3}{4}$	364	31.778	339.82
	5	282	1084.43	029 $\frac{1}{2}$	365 $\frac{1}{2}$	31.990	398.35
	6	210	1143.47	030	366 $\frac{1}{2}$	34.304	419.08
	474	61	916.84	169 $\frac{1}{2}$	767	155.175	703.21
	489	77	999.16	095 $\frac{1}{2}$	723 $\frac{1}{2}$	95.169	722.89
	490	63	1069.33	095	723 $\frac{1}{2}$	101.586	773.66
	511	179	1079.92	095 $\frac{3}{4}$	837 $\frac{1}{2}$	103.403	904.43
	2	179	1089.83	095	837 $\frac{1}{2}$	103.533	912.73
	3	64	1050.76	095 $\frac{3}{4}$	837 $\frac{1}{2}$	100.610	890.01
	6	180	859.75	085	739	73.078	635.35
	7	180	1017.08	085	739 $\frac{1}{2}$	86.451	752.15
	533	181	1019.44	095	856 $\frac{1}{2}$	96.846	973.15

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	Number	Anode No.	Weight	Fineness		Fine ounces	
Silver Deposits 1913	555	278	1086.18	094	845	102.100	917.82
	560	181	974.89	050 $\frac{1}{2}$	744	48.988	725.31
	1	154	478.07	050 $\frac{1}{2}$	742 $\frac{1}{2}$	24.142	354.96
	580	181	1014.40	075 $\frac{3}{4}$	801 $\frac{1}{2}$	76.840	813.04
	4	185	454.04	075 $\frac{3}{4}$	801 $\frac{1}{2}$	34.393	363.91
	6	264	999.29	046	749	45.967	748.46
	8	69	445.44	046	749 $\frac{1}{2}$	20.490	333.85
	597	183	875.16	074 $\frac{1}{2}$	812	65.199	710.62
	8	190	879.20	074 $\frac{1}{2}$	812	65.280	713.91
	603	183	644.73	045	780 $\frac{1}{2}$	29.014	503.23
	616	265	1100.42	075 $\frac{1}{2}$	845 $\frac{1}{2}$	82.806	930.40
	623	183	967.56	042 $\frac{1}{2}$	733 $\frac{1}{2}$	40.879	709.70
	4	183	598.75	042 $\frac{1}{2}$	734 $\frac{1}{2}$	25.297	439.78
	639	184	1040.75	072	841 $\frac{1}{2}$	74.934	875.79
	646	277	505.46	049	671	24.767	339.16
	659	173	958.40	084 $\frac{1}{2}$	847	80.745	811.76
	660	62	1003.32	084 $\frac{1}{2}$	846 $\frac{1}{2}$	84.780	849.31
	3	184	979.76	073 $\frac{1}{2}$	753	72.012	737.75
	4	184	1017.00	073 $\frac{1}{2}$	753 $\frac{1}{2}$	74.749	766.30
	5	278	419.56	074	755	31.047	316.76
Silver Deposits 1914	13	74	983.70	089 $\frac{1}{2}$	822	86.041	808.60
	4	73	976.83	089 $\frac{1}{2}$	822 $\frac{1}{2}$	87.182	803.44
	5	72	936.55	089 $\frac{1}{2}$	822 $\frac{1}{2}$	83.821	770.31
	6	71	1044.13	089	820 $\frac{1}{2}$	92.927	856.70
	8	171	863.89	061 $\frac{1}{2}$	693	53.129	598.67
	43	171	1031.65	056 $\frac{1}{2}$	791 $\frac{1}{2}$	58.288	816.55
	60	187	1018.97	075 $\frac{1}{2}$	821 $\frac{1}{2}$	76.677	837.08
	3	61	380.04	075 $\frac{1}{2}$	821 $\frac{1}{2}$	28.693	312.20
	7	171	738.38	053 $\frac{3}{4}$	794	39.687	586.27
	86	166	859.72	053	733	45.565	630.17
	110	189	928.76	072 $\frac{3}{4}$	795 $\frac{1}{2}$	67.567	738.82
	1	166	987.45	072	795	71.096	785.02

	Number	Anode No.	Weight	Fineness		Fine Ounces	
Silver Deposits 1914	114	188	894.47	072 $\frac{1}{2}$	795	64.625	711.10
	5	194	988.58	072 $\frac{1}{2}$	795 $\frac{1}{2}$	71.672	786.41
	6	187	960.81	072 $\frac{3}{4}$	795 $\frac{1}{2}$	69.896	764.32
	7	186	455.69	072 $\frac{1}{2}$	795 $\frac{1}{2}$	33.037	362.50
	135	189	1003.37	062	752 $\frac{3}{4}$	62.208	755.03
	7	223	965.36	061 $\frac{3}{4}$	752	59.610	725.95
	9	194	1036.01	061 $\frac{1}{2}$	754	63.714	781.15
	142	169	675.91	062	750	41.906	506.93
	153	162	1329.26	319 $\frac{1}{2}$	633 $\frac{1}{2}$	424.363	842.08
	7	221	1324.86	055 $\frac{1}{2}$	700 $\frac{1}{2}$	73.529	928.06
	162	167	1343.50	057	725	76.579	974.03
	3	194	447.06	057 $\frac{1}{2}$	728	25.705	325.45
	171	324	1145.35	256 $\frac{3}{4}$	724	294.068	329.23
	183	185	1393.00	050 $\frac{3}{4}$	749	70.694	1043.35
	4	185	1380.60	050 $\frac{3}{4}$	748	70.065	1032.68
	5	186	1475.37	050 $\frac{3}{4}$	750	74.275	1106.52
	6	186	1409.72	050 $\frac{3}{4}$	755	71.543	1064.33
	7	187	1357.14	050 $\frac{3}{4}$	753 $\frac{1}{2}$	68.874	1022.60
	8	169	893.65	050 $\frac{3}{4}$	758 $\frac{1}{2}$	45.352	677.83
	190	70	982.83	249 $\frac{1}{2}$	739 $\frac{1}{2}$	244.970	726.80
	200	168	922.46	047 $\frac{1}{2}$	777 $\frac{1}{2}$	43.586	717.21
	1	188	1355.10	046 $\frac{3}{4}$	777	63.350	1052.91
	2	189	1363.53	046 $\frac{1}{2}$	777	63.404	1059.46
	215	328	1107.76	250	675	276.940	747.73
	223	168	328.99	043 $\frac{1}{2}$	715	35.853	592.72
	239	83	930.34	051 $\frac{1}{2}$	704 $\frac{1}{2}$	47.680	655.42
			944.84	050 $\frac{1}{2}$	697	47.714	658.55
	240	110	871.47	051 $\frac{1}{2}$	702 $\frac{1}{2}$	44.663	612.21
			881.29	050 $\frac{1}{2}$	696	44.284	613.37
	241	127	1027.86	051 $\frac{1}{2}$	701 $\frac{1}{2}$	52.678	721.04
			1039.56	050 $\frac{1}{2}$	696 $\frac{1}{2}$	52.237	724.05
	242	131	896.85	051 $\frac{1}{2}$	697 $\frac{1}{2}$	45.963	625.55
			898.91	050 $\frac{3}{4}$	702	45.619	631.03

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	Number	Anode No.	Weight	Fineness		Fine ounces	
Silver Deposits 1914	243	128	1016.80	053	722 $\frac{1}{2}$	53.837	733.91
			1017.34	052 $\frac{1}{2}$	720	53.410	732.48
	244	89	819.66	053	721	43.442	590.97
			821.57	052 $\frac{1}{2}$	720 $\frac{1}{2}$	43.132	591.94
	245	131	850.44	053 $\frac{1}{2}$	719 $\frac{1}{2}$	45.286	611.89
			851.79	052	723	44.293	615.84
	246	131	842.21	052	707 $\frac{1}{2}$	43.795	595.87
			845.69	051 $\frac{1}{2}$	707	43.341	597.90
	247	132	903.78	051 $\frac{3}{4}$	707	46.770	638.97
			908.59	051 $\frac{1}{2}$	707	46.565	642.37
	248	132	862.34	051 $\frac{3}{4}$	704	44.626	607.09
			864.04	051	706 $\frac{1}{2}$	44.066	610.44
	249	132	902.75	052 $\frac{1}{2}$	713	47.394	643.66
			903.91	052 $\frac{1}{2}$	713	47.229	644.48
	250	114	931.79	052 $\frac{1}{2}$	716	48.919	667.16
			934.43	052	714	48.590	667.18
	251	111	545.28	052 $\frac{3}{4}$	716 $\frac{1}{2}$	28.763	390.69
			547.11	052	718	28.449	392.82
	277	168	963.85	051	716 $\frac{1}{2}$	49.156	690.59
	298	167	1026.80	044 $\frac{1}{2}$	720 $\frac{1}{2}$	45.692	739.80
	325	169	1017.95	045	682	45.807	694.24
	333	150	488.23	045	690 $\frac{1}{2}$	21.970	337.12
	344	81	1108.84	235 $\frac{1}{2}$	741 $\frac{1}{2}$	260.856	822.21
			1111.09	234 $\frac{3}{4}$	739	260.828	821.09
	345	118	1001.08	046 $\frac{3}{4}$	702	46.800	702.76
			1003.60	046 $\frac{1}{2}$	701	46.416	703.52
	346	119	999.54	047	702	46.979	701.68
			1002.60	046 $\frac{1}{2}$	701 $\frac{1}{2}$	46.370	703.32
	347	156	1004.92	047	702	47.231	705.45
			1008.00	046 $\frac{3}{4}$	701	47.124	706.80
	348	149	1010.51	047 $\frac{1}{2}$	706 $\frac{1}{2}$	47.747	713.93
			1012.37	047	706	47.581	714.73

	Number	Anode No.	Weight	Fineness		Fine Ounces	
Silver Deposits 1914	349	141	989.96	047	704 $\frac{1}{2}$	46.526	697.43
			992.96	046 $\frac{3}{4}$	704	46.420	699.04
	350	130	985.89	046 $\frac{1}{2}$	695	45.597	685.19
			987.85	046 $\frac{1}{2}$	696	45.688	687.54
	351	195	990.51	046 $\frac{1}{2}$	696 $\frac{1}{2}$	46.059	689.89
			992.75	046	697	45.666	691.94
	352	226	997.38	046 $\frac{1}{2}$	696 $\frac{1}{2}$	46.129	694.68
			999.81	046 $\frac{1}{2}$	696	46.241	695.86
	353	227	1002.30	045 $\frac{3}{4}$	687	45.855	688.58
			1005.66	045 $\frac{1}{2}$	687 $\frac{1}{2}$	45.757	691.39
	354	228	1023.92	045 $\frac{3}{4}$	687	46.844	703.43
			1027.09	045 $\frac{1}{2}$	688 $\frac{1}{2}$	46.732	707.15
	355	229	1018.25	045 $\frac{3}{4}$	688	46.585	700.55
			1021.36	045 $\frac{1}{2}$	688 $\frac{1}{2}$	46.471	703.20
	356	218	1034.98	045 $\frac{3}{4}$	687 $\frac{1}{2}$	47.350	711.55
			1036.44	045 $\frac{1}{2}$	690	47.158	715.14
	357	113	654.01	045 $\frac{3}{4}$	687	29.921	449.30
			655.66	045 $\frac{1}{2}$	689	29.832	451.74
	386	154	1072.25	259 $\frac{1}{2}$	715	278.248	766.65
	7	166	1079.44	047 $\frac{1}{2}$	648 $\frac{1}{2}$	51.003	700.01
	590	48	1117.00	045 $\frac{1}{2}$	621	50.544	693.66
	1	49	1156.10	045	621	52.024	717.94
	2	50	1154.72	044 $\frac{3}{4}$	618	51.674	713.62
	3	58	1149.49	041	556 $\frac{1}{2}$	47.129	639.69
	6	286	1181.56	040 $\frac{1}{2}$	569 $\frac{1}{2}$	47.558	672.90
	7	55	1168.49	041	601	47.906	702.26
	8	284	1112.43	040 $\frac{1}{2}$	599	45.053	666.34
	9	285	1140.67	041	599	46.767	683.25
	600	30	137.55	042 $\frac{1}{2}$	633	5.845	87.06
	623	56	1161.10	057 $\frac{1}{2}$	709 $\frac{1}{2}$	66.473	823.80
	4	56	1002.00	057 $\frac{1}{2}$	709 $\frac{1}{2}$	57.365	710.92
	5	57	1164.90	051	673	59.410	783.98

	Number	Anode No.	Weight	Fineness		Fine Ounces	
Silver Deposits 1914	636	219	1169.43	051	624 $\frac{1}{2}$	59.641	730.31
	7	220	1171.85	051 $\frac{1}{2}$	626 $\frac{1}{2}$	60.058	734.17
	8	222	1169.85	052	633	60.832	740.51
	9	223	1163.51	052	633	60.503	736.50
	630	190	1012.59	051 $\frac{3}{4}$	631	52.402	638.95
	1	57	227.74	049 $\frac{1}{2}$	603 $\frac{1}{2}$	11.273	137.44
	8	11	1156.46	059	741	68.231	856.93
	9	12	1152.12	059	741	67.975	853.72
	640	9	1143.08	065 $\frac{3}{4}$	825	75.158	943.05
	2	11	1145.02	062 $\frac{3}{4}$	787	71.850	901.13
	3	12	1157.43	062 $\frac{3}{4}$	787	72.629	910.89
	4	10	1151.25	063	793	72.529	912.94
	5	9	1140.13	063 $\frac{1}{2}$	795 $\frac{1}{2}$	72.113	906.98
	6	10	1138.38	063	793 $\frac{1}{2}$	71.718	903.31
	7	10	792.71	062 $\frac{3}{4}$	790	49.742	626.24
	841	242	1168.29	078 $\frac{1}{2}$	859	91.711	1003.56
	2	242	1122.79	078 $\frac{1}{2}$	859	88.139	964.48
	3	242	1167.97	078 $\frac{3}{4}$	862 $\frac{1}{2}$	91.977	1007.37
	4	243	1129.79	078 $\frac{3}{4}$	862 $\frac{1}{2}$	88.971	974.44
	5	229	1129.92	077	837 $\frac{1}{2}$	87.004	946.31
	6	243	1133.80	078	851 $\frac{1}{2}$	88.436	965.43
	7	243	1169.73	078	851 $\frac{1}{2}$	91.239	996.03
	8	229	1082.97	076	851	84.472	921.61

Numbers 239 to 251 and 344 to 357, inclusive, are the bars that were remelted; and the line bearing the numbers of the bar and anode melt shows the weight, fineness and fine ounces as charged into the anode melt, while, in each instance, the line immediately following and carrying no number of bar or anode melt, shows the weight, fineness, and fine ounces of the original bar, before remelting.

U. S. Mint, Denver, March 11, 1915.

Joe Wilson
Supt. Melting & Refining Dept.

IN & LOSS in GOLD & SILVER in Melting GOLD Anodes

Vlt	No. of Bars	Weight	Before Melting		Fine ounces	
			Fineness Gold	Silver	Gold	Silver
	5	5428.89	.9224	.0517	5005.635	280.41
	6	5535.42	.9224	.0509	5105.712	281.78
	7	5382.68	.9278	.0549	4994.171	290.13
	6	5631.18	.9235	.0492	5228.763	277.25
	6	5533.89	.9214	.0521	5098.908	288.34
	5	5318.21	.9213	.0489	4899.866	260.18
	7	5647.96	.9169	.0513	5178.765	292.43
	7	5605.20	.9241	.0471	5179.671	264.27
	6	5684.14	.9264	.0453	5266.747	257.74
	6	5762.33	.9231	.0467	5319.441	269.04
	6	5529.25	.9207	.0527	5089.594	291.66
	7	5695.16	.9235	.0499	5247.874	284.20
	6	5688.80	.9236	.0415	5282.481	235.88
	7	5566.65	.9221	.0493	5132.760	274.31
		78007.76			72029.458	3847.61

SILVER ANODES

36	6	5511.42	.3664	.4860	2019.228	2678.53
7	13	5442.14	.3686	.4843	2005.951	2655.76
8	8	5547.13	.3608	.5003	2001.085	2775.52
9	7	5416.25	.3626	.4904	1963.686	2704.82
40	7	5534.57	.3713	.4782	2055.305	2646.58
1	7	5508.18	.3578	.4899	1970.524	2698.16
2	19	5606.52	.3635	.5353	2039.100	3281.51
3	19	5594.86	.3666	.5344	2051.354	3269.59
4	16	5523.07	.3669	.5703	2026.151	3149.86
5	16	5513.97	.3732	.5191	2057.627	2862.18
6	5	5508.48	.3740	.5659	2059.970	3117.09
7	5	5501.18	.3741	.5678	2058.247	3123.61
8	5	5478.14	.3740	.5640	2048.625	3089.69
9	6	5587.12	.3692	.5564	2063.022	3108.31
350	8	5448.90	.3878	.4758	2112.954	2592.84
1	28	5545.66	.3944	.4678	2187.536	2593.98
2	32	5557.80	.3670	.4884	2039.731	2714.41
3	30	5631.06	.3897	.4942	2194.712	2783.03
4	19	5476.36	.3831	.5585	2098.140	3058.64
5	19	5497.67	.3771	.5654	2073.262	3108.31
6	22	5446.39	.3849	.5554	2096.565	3024.96
7	10	5596.08	.3714	.4633	2078.309	2592.83
8	35	5550.81	.3884	.4500	2155.813	2493.10
9	24	5572.62	.3545	.4852	1975.392	2703.66
360	8	5589.00	.3675	.4980	2054.114	2733.37
2	6	5521.83	.3770	.4550	2082.046	2512.43
1	6	5555.30	.3621	.4921	2011.599	2733.93
3	8	5493.15	.3773	.4859	2072.804	2668.91
		154755.66			57651.832	79510.56

Denver Mint, March, 1915.

Weight	After Melting		Fine ounces		Fine ounces			
	Fineness				Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
5426.30	.9226	.0505	5006.304	274.02	.669			6.39
5534.88	.9224	.0510	5105.373	282.27		.339	.49	
5381.53	.9280	.0530	4994.059	285.22		.112		4.91
5629.99	.9285	.0485	5227.445	273.05		1.318		4.20
5531.98	.9215	.0530	5097.719	293.19		1.279	4.85	
5316.41	.9215	.0490	4899.071	260.50		.795	.32	
5846.09	.9171	.0505	5178.029	285.12		.736		7.31
5603.63	.9241	.0465	5178.314	260.56		1.357		3.71
5683.52	.9266	.0470	5266.349	267.12	.602		9.38	
5761.07	.9232	.0475	5318.619	273.65		.822	4.61	
5527.87	.9210	.0530	5091.168	292.97	1.574		1.32	
5693.94	.9222	.0505	5250.951	287.54	3.077		3.34	
5686.39	.9289	.0420	5282.087	238.82		.374	2.94	
5565.77	.9222	.0485	5132.755	269.93		.007		4.38
77989.37			72028.241	3843.96	5.922	7.139	27.25	30.90
						5.922		27.25
			Melting losses			1.217		3.65
			Month's recoveries			3.330		.43
			Total Gold Gain			2.113		
			" Silver Loss					3.22

5505.28	.3673	.4880	2022.067	2686.54	2.839		8.01	
5438.13	.3687	.4855	2005.056	2640.23		.895	4.47	
5543.74	.3619	.5005	2006.279	2774.64	5.194			.88
5414.43	.3637	.4995	1969.228	2704.50	5.542			.32
5582.00	.3721	.4830	2058.457	2671.95	3.152		25.37	
5502.25	.3582	.4915	1970.905	2704.35	.381		6.19	
5606.94	.3639	.5845	2040.001	3276.67	1.901			4.84
5592.94	.3667	.5830	2050.931	3260.68		.423		8.91
5620.50	.3673	.5675	2027.679	3132.88	1.528			16.98
5509.99	.3733	.5210	2056.879	2870.70		.748	8.52	
5504.28	.3744	.5645	2060.802	3107.16	.832			9.93
5496.58	.3750	.5675	2061.217	3119.30	2.970			4.31
5475.20	.3741	.5635	2048.272	3085.27		.353		4.42
5593.93	.3695	.5565	2063.262	3107.45	.240			.86
5445.66	.3887	.4770	2116.728	2597.57	3.774		4.73	
5541.99	.3949	.4680	2182.531	2593.65	.995			.33
5553.33	.3671	.4930	2038.627	2737.79		1.104	23.38	
5627.72	.3901	.4985	2195.373	2805.41	.661		22.38	
5473.31	.3930	.5605	2096.277	3067.79		1.863	9.15	
5495.47	.3772	.5665	2072.891	3113.18		.371	4.87	
5443.39	.3851	.5585	2096.249	3040.13		.316	15.17	
5592.92	.3721	.4655	2081.125	2603.50	2.816		10.62	
5546.74	.3891	.4535	2158.236	2515.44	2.423		17.34	
5569.15	.3551	.4895	1977.605	2726.09	2.233		22.43	
5583.88	.3676	.5000	2052.634	2791.94		1.480	8.57	
5511.41	.3779	.4600	2082.761	2535.24	.715		22.31	
5548.10	.3627	.4940	2012.295	2740.78	.696		6.93	
5487.75	.3782	.4855	2075.467	2664.30	2.663			4.61
154646.00			57685.634	79675.11	41.555	7.553	220.94	56.39

Before Melting

Forward		154755.66			57651.832	79510.56
364	7	5457.71	.3736	.4885	2038.745	2667.11
5	6	5470.21	.3712	.4589	2030.530	2509.97
6	26	5588.16	.3656	.4889	2043.158	2731.22
7	8	5338.46	.3745	.4664	1999.157	2485.73
8	7	5564.68	.3572	.5067	1987.444	2419.80
9	13	5455.55	.3847	.4865	2038.647	2648.34
370	5	5533.65	.3772	.4949	2087.219	2758.76
1	6	5512.33	.3753	.5023	2068.987	2769.01
2	5	5518.11	.3797	.4392	2095.520	2423.76
3	8	5549.59	.3745	.4786	2078.211	2656.01
4	10	5524.19	.3716	.4803	2052.757	2653.54
5	13	5571.32	.3508	.4905	1954.232	2732.66
6	6	5454.69	.3714	.4906	2025.652	2676.11
7	6	5467.38	.3852	.4886	2105.941	2671.40
8	13	5570.22	.3675	.5183	2046.138	2887.22
9	16	5477.18	.3824	.4639	2094.720	2640.82
380	12	5528.55	.3868	.4661	2138.524	2576.67
1	13	5522.71	.3721	.4595	2055.128	2537.46
3 *	7	5622.22	.3764	.5172	2116.246	2907.85
4	21	5562.85	.3714	.4856	2065.626	2701.22
5	9	5583.90	.3610	.4992	2015.783	2781.49
6	17	5602.24	.3755	.4867	2103.389	2726.34
		<u>276231.56</u>			<u>102953.466</u>	<u>138357.74</u>

* No. 382, Special

MELTING AND REFINING DEPARTMENT BALANCES.

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent of the _____ by him during the _____, 1915.

RECEIVED.		GOLD, Fine Ounces.		Dec.		DELIVERED.		GOLD, Fine Ounces.		Dec.		RECEIVED.		NICKEL, Troy Ounces.		Dec.		DELIVERED.		NICKEL, Troy Ounces.		Dec.	
Balance																							
contained in Gold Deposits		1452028468				Ingots								57467332		Ingots							
contained in Silver Deposits		91037432				Bars, Fine								7441374		Bars							
contained in		6355055				Bars, Standard								2075790									
Shipments, blanks, etc.		10898272				Bars, Unparted																	
		88613				Bars																	
		593700				Sweeps																	
Total		1560998540				Balance		1339316762				Total		155631723		Balance		133741343				155631723	
RECEIVED.		SILVER, Fine Ounces.		Dec.		DELIVERED.		SILVER, Fine Ounces.		Dec.		RECEIVED.		BRONZE, Troy Ounces.		Dec.		DELIVERED.		BRONZE, Troy Ounces.		Dec.	
contained in Gold Deposits		247331651				Ingots																	
contained in Silver Deposits		1217156				Bars, Fine																	
contained in		6122437				Bars, Standard																	
Shipments, blanks, etc.		982883				Bars, Unparted																	
		2168				Bars																	
		1260117				Sweeps																	
Total		256922444				Balance		253807082				Total				Balance		67419276				72919564	

Approved: _____, 1915
Superintendent Melting and Refining.

GAIN & LOSS in GOLD & SILVER in Melting GOLD ANODES

No. of Melt	No. of Bars	Weight	Before Melting			
			Fineness		Fine ounces	
			Gold	Silver	Gold	Silver
94	6	5614.42	.9204	.0482	5167.660	270.40
5	5	5561.38	.9242	.0486	5139.758	270.04
6	6	5543.87	.9242	.0453	5123.529	251.12
7 *	6	5530.10	.9235	.0461	5107.018	254.93
9	5	5436.26	.9238	.0456	5022.115	248.00
100	5	5534.32	.9240	.0438	5113.985	242.18
1	9	5954.73	.9347	.0584	5565.905	347.79
2	6	5628.20	.9222	.0475	5190.384	267.57
3	6	5546.00	.9238	.0451	5123.678	250.26
4	6	5625.75	.9261	.0434	5209.837	244.27
5	7	5760.77	.9205	.0492	5302.789	283.13
		61755.80			57066.558	2929.59

* No. 98, Special

SILVER ANODES

387	7	5584.49	.3915	.4686	2186.619	2616.74
8	7	5496.78	.3787	.4535	2081.472	2492.73
9	9	5510.70	.3887	.4819	2142.090	2655.48
390	14	5491.26	.3703	.4635	2033.417	2545.08
1	6	5509.52	.3790	.5012	2088.367	2761.27
2	7	5477.65	.3807	.4978	2085.341	2726.85
3	6	5568.71	.3672	.4804	2044.578	2675.17
4	21	5462.69	.3912	.4727	2136.957	2577.43
5	8	5515.60	.3748	.4681	2067.476	2581.63
6	9	5397.63	.3716	.5275	2002.840	2847.15
7	27	5559.15	.3846	.4555	2138.157	2632.18
8	7	5572.50	.3694	.4875	2058.241	2716.75
9	14	5590.78	.3623	.4935	2025.541	2759.09
400	7	5558.24	.3663	.5084	2035.884	2826.01
1	10	5627.11	.3500	.4842	1969.793	2724.41
2	6	5516.64	.3748	.5214	2067.545	2876.12
3	6	5477.71	.3671	.4845	2010.775	2654.04
4	7	5604.50	.3523	.5206	1974.341	2917.29
5	9	5529.09	.3786	.4967	2093.392	2750.46
6	8	5582.93	.3768	.4974	2103.814	2773.00
7	8	5535.89	.3748	.4948	2074.798	2739.19
8	18	5465.00	.3582	.5080	1957.322	2775.92
9	6	5527.79	.3809	.4961	2105.625	2742.55
410	7	5479.42	.3795	.4723	2079.196	2588.23
1	18	5530.75	.3639	.4675	2012.644	2587.13
2	31	5416.17	.3684	.5163	1995.063	2796.14
Forward		143588.70			53571.288	70238.04

Denver Mint, April, 1915.

After Melting				Fine ounces				
Weight	Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
5612.92	.9207	.0480	5167.815	269.42	.155			.98
5558.81	.9243	.0485	5138.008	269.60		1.750		.44
5542.04	.9244	.0450	5123.061	249.39		.468		1.73
5527.42	.9242	.0455	5108.441	251.49	1.423			3.34
5435.11	.9238	.0440	5020.954	239.14		1.161		8.86
5535.49	.9244	.0430	5115.158	237.94	1.173			4.24
5951.98	.9353	.0575	5566.886	342.23	1.081			5.56
5627.08	.9222	.0475	5189.293	267.28		1.091		.29
5545.12	.9241	.0440	5124.245	243.98	.567			6.28
5624.77	.9266	.0410	5211.911	230.61	2.074			13.66
5759.26	.9209	.0490	5303.702	282.20	.913			.93
61718.00			57089.474	2885.28	7.386	4.470		46.31
					4.470			----
					2.916			
			Gold, Melting gain,					46.31
			Silver " loss					
			Month's recoveries		1.994			2.38
			Net gain, Gold		4.910			
			Net loss, Silver					43.93

5581.52	.3923	.4690	2189.630	2617.73	3.011		.99	
5491.06	.3793	.4550	2082.759	2498.43	1.287		5.70	
5507.08	.3889	.4840	2141.703	2665.42		.387	9.94	
5484.42	.3707	.4630	2033.074	2539.28		.343		5.80
5503.52	.3801	.4990	2091.887	2746.25	3.520			15.02
5470.46	.3815	.4955	2086.980	2710.61	1.639			16.24
5560.29	.3676	.4800	2043.962	2668.93		.616		6.24
5458.06	.3915	.4760	2136.830	2598.03		.127	20.60	
5508.90	.3758	.4730	2070.244	2605.70	2.768		24.07	
5395.45	.3715	.5280	2004.409	2848.79	1.569		1.64	
5554.98	.3852	.4585	2139.778	2546.95	1.621		14.77	
5565.99	.3703	.4880	2061.086	2716.20	2.845			.55
5583.79	.3627	.4950	2025.240	2763.97		.301	4.88	
5554.50	.3662	.5125	2034.057	2846.68		1.827	20.67	
5623.46	.3508	.4865	1972.709	2735.81	2.916		11.40	
5513.72	.3751	.5215	2068.196	2875.40	.651			.72
5470.51	.3681	.4855	2013.694	2655.93	2.919		1.89	
5600.04	.3527	.5205	1975.134	2914.82	.793			2.47
5524.08	.3802	.4965	2100.255	2742.70	6.863			7.76
5577.78	.3777	.4970	2106.727	2772.15	2.913			.85
5530.04	.3751	.4935	2074.318	2729.07		.480		10.12
5459.00	.3586	.5070	1957.597	2767.71	.275			8.21
5524.66	.3816	.4965	2108.210	2742.99	2.585		.44	
5471.67	.3797	.4740	2077.593	2593.57		1.603	5.34	
5525.68	.3646	.4690	2014.662	2591.54	2.018		4.41	
5411.22	.3687	.5185	1995.116	2805.71	.053		9.57	
145451.88			53605.850	70300.37	40.246	5.684	136.31	73.98

Before Melting

Forward		143588.70			55571.288	70258.04
413	19	5530.50	.3667	.4645	2026.000	2568.81
4	13	5509.97	.3844	.4567	2118.189	2516.58
5	9	5589.68	.3675	.5449	1980.590	2936.44
6	20	5593.60	.3820	.5170	2136.511	2891.90
7	10	5628.73	.3601	.5437	2027.287	3060.23
8	6	5655.29	.3728	.5404	2108.420	3056.43
9	11	5580.22	.3885	.5290	2167.866	2952.12
420	10	5604.87	.3852	.5467	2158.862	3064.17
1	5	5301.78	.3848	.5263	2039.985	2790.66
2	6	5433.80	.3648	.5481	1982.126	2978.52
3	8	5674.19	.3588	.5372	2035.690	3048.08
4	17	5697.70	.3588	.5509	2044.074	3139.20
5	9	5451.64	.3829	.5355	2087.193	2919.23
6	9	5584.69	.3817	.4947	2131.402	2762.65
7	18	5538.42	.3692	.5410	2044.424	2996.13
8	8	5518.16	.3833	.5400	2113.608	2980.01
9	9	5606.35	.3819	.5495	2140.499	3080.25
430	19	5613.25	.3919	.5078	2199.858	2850.06
1	18	5625.00	.3759	.5339	2114.605	3003.35
		249126.54			95230.477	125832.86

After Melting

148451.88		53605.850	70300.37	40.246	5.684	136.31	73.9
5527.57	.3667	.4695	2026.886	2595.10			
5506.01	.3846	.4600	2118.712	2552.76	.523	1.114	26.29
5385.63	.5677	.5415	1980.296	2916.51			16.16
5588.70	.3325	.5160	2136.560	2883.76	.049	.294	20.12
5623.88	.3608	.5410	2029.095	3042.51	1.808		8.14
5650.17	.3730	.5400	2107.513	3051.09		.907	17.72
5577.06	.3887	.5290	2167.803	2950.26		.063	5.34
5603.37	.3854	.5455	2159.153	3056.09	.291		1.86
5297.50	.3854	.5255	2041.656	2783.83	1.671		8.09
5429.88	.3650	.5470	1981.906	2970.14		.220	6.83
5670.46	.3591	.5370	2036.262	3045.03	.572		8.38
5692.80	.3591	.5530	2044.284	3146.11	.210		3.05
5449.51	.3833	.5355	2088.797	2918.21	1.604		
5581.82	.3819	.4970	2131.697	2774.16	.295		1.02
5536.02	.3689	.5410	2042.237	2994.98		2.187	11.51
5513.40	.3833	.5425	2113.286	2991.01		.322	1.15
5600.66	.3826	.5495	2142.812	3077.56	2.513		11.00
5603.79	.3927	.5080	2202.571	2849.26	2.713		2.69
5617.30	.3762	.5350	2113.228	3005.25		1.377	.80
548911.21			93270.604	125885.79	52.295	12.168	212.10
					12.168		159.17
					40.127		52.93
					10.975		9.23
					51.102		62.16

May 6, 1915.

J. C. Wilson
 Sup't. M & O Pk
 Denver, Colo.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Absence, Conduct, and Workmanship Account, March, 1915.

	Time	Conduct	Workmanship
Arnold, R.G.	---	100	98
Borstadt, G.	1 day lv.	100	98
Bush, WM.	5 das. sick	100	98
Crary, J.H.	---	100	98
Dardis, W.N.	---	100	97
French, H.W.	---	100	96
Gray, G.B.	---	100	98
Hetrich, J.M.	6 hrs. lv.	100	100
Hume, F.N.	---	100	98
Ligon, A.	---	100	97
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	98
Milson, J.W.	1 hr. lv.	100	98
Perry, R.J.	---	100	98
Presnell, J.H.	1 day lv.	100	98
Russell, N.A.	---	100	98
Schell, E.P.	---	100	95
Spencer, G.N.	2 das. 5 $\frac{1}{2}$ hrs. lv.	100	98
St. John, F.	1 da. 4 $\frac{1}{2}$ hrs. "	100	100
	1 day sick		
Stoddard, X.T.	---	100	98
Whitaker, S.R.	---	100	98
Whitehead, H.R.	---	100	99
Willar, W.	2 das. lv.	100	97

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Absence, Conduct, and Workmanship Account, April, 1915.

	Time	Conduct	Workmanship
Arnold, R. O.		100	98
Berstadt, G.		100	98
Bush, H. M.		100	98
Crary, J. H.		100	98
Darcie, W. H.		100	97
French, H. W.	2 das. lv.	100	96
Gray, G. B.		100	98
Hettrich, J. M.		100	100
Hume, F. M.		100	98
Ligon, A.		100	97-8
Linchard, J. A.		100	98
Lundin, A. H.		100	98
Milson, J. W.	3 hrs. lv.	100	98
Perry, R. J.		100	98
Presnell, J. H.		100	98
Russell, N. A.		100	95
Schell, R. P.	1 day sick	100	98
Spencer, G. N.	6 das. 6 hrs. lv.	100	100
St. John, F.	1 day 1 1/2 hrs. lv.	100	98
Stoddard, K. T.	4 das. 2 hrs. lv.	100	98
Whitaker, S. R.		100	99
Whithead, H. R.	4 1/2 hrs. lv.	100	97-8
Willan, W.		100	

GAIN & LOSS in GOLD AND SILVER in Melting GOLD ANODES

No. of Melt	No. of Bars	Weight	Before Melting		Fine ounces	
			Fineness		Gold	Silver
			Gold	Silver		
106	6	5707.20	.9240	.0477	5273.283	272.08
7	6	5570.22	.9210	.0511	5130.119	234.45
8	6	5703.66	.9114	.0496	5198.134	285.07
9	6	5668.89	.9205	.0503	5218.158	285.19
111	6	5542.49	.9204	.0488	5101.582	270.45
2	5	5785.83	.9221	.0466	5354.931	269.83
3	6	5829.56	.9186	.0464	5355.173	270.70
4	6	5840.23	.9237	.0488	5394.895	285.23
		45648.08			42006.275	2221.05

No. 110 Special

SILVER ANODES

432	18	5555.83	.3870	.5120	2149.116	2843.66
3	7	551.30	.3824	.5310	2107.400	2926.26
4	8	546.18	.3837	.5466	2101.399	2993.28
5	7	540.48	.3747	.5376	2045.915	2935.71
6	17	567.95	.3923	.5122	2223.637	2902.64
7	26	531.31	.3762	.5235	2081.038	2895.74
8	11	5497.66	.3845	.5393	2113.700	2964.76
9	7	5524.62	.3683	.5220	2034.897	2883.56
440	8	5576.92	.3610	.5522	2013.068	3079.45
1	18	5545.21	.3720	.5196	2062.498	2881.29
2	40	5577.16	.3745	.5206	2088.881	2905.50
3	11	5480.88	.3793	.5380	2078.813	2948.87
4	14	5540.86	.3797	.5122	2103.696	2876.55
5	27	5588.81	.3846	.5582	2149.525	3119.74
6	2	5420.91	.3765	.5365	2041.180	2908.25
7	1	5620.74	.3835	.5166	2155.656	2903.71
8	20	5625.78	.3915	.5197	2202.469	2923.75
9	15	5663.70	.3759	.5160	2129.056	2922.57
450	28	5636.59	.3753	.4965	2115.472	2798.80
1	67	5693.70	.3908	.5211	2224.610	2966.53
2	47	5538.34	.3956	.5316	2190.990	2943.90
3	40	5521.00	.3908	.5196	2157.393	2968.66
4	34	5561.76	.3697	.5715	2058.104	3178.54
		127815.69			48626.513	67569.92

Denver Mint, May, 1915.

[illegible]

5551.29	.5875	.5110	2151.124	2836.70	2.008			6.96
5509.34	.3829	.5295	2109.143	2916.66	1.743			9.60
5472.80	.3844	.5470	2103.744	2993.62	2.345		.34	
5454.68	.3754	.5355	2047.686	2920.98	1.771			14.73
5362.93	.3928	.5100	2224.359	2888.04	.722			14.80
5326.94	.3767	.5230	2081.998	2890.58	.960			5.16
5498.91	.3847	.5390	2113.122	2960.67		.578		4.09
5520.34	.3689	.5225	2036.453	2884.37	1.556		.81	
5570.49	.3611	.5505	2011.503	3066.55		1.565		12.90
5339.75	.3730	.5220	2060.787	2891.74		1.711	10.45	
5674.40	.3747	.5220	2088.727	2909.83		.154	6.33	
5477.80	.3798	.5390	2080.468	2952.53	1.655		3.66	
5535.65	.3807	.5200	2107.421	2878.53	3.725		1.98	
5586.32	.3854	.5605	2152.967	3131.13	3.442		11.39	
5417.41	.3765	.5365	2039.654	2902.44		1.526		1.81
5316.50	.3838	.5190	2154.489	2914.96		1.167	11.25	
5619.79	.3918	.5190	2201.441	2916.15		1.028		7.60
5357.29	.3760	.5160	2127.141	2919.16		1.915		3.41
5633.22	.3754	.4965	2114.958	2797.22		.514		1.58
5627.22	.3910	.5225	2223.937	2971.88		.673	5.35	
5536.64	.3959	.5320	2191.955	2945.49	.965		1.59	
5512.70	.3910	.5265	2157.811	2905.59	.418		36.93	
5559.44	.3700	.5735	2056.992	3188.33	.888		9.79	
127721.01			48637.880	67587.15	22.198	10.831	99.87	82.64
					10.831		82.64	
					11.367		17.23	
					3.581		4.40	
					14.948		21.63	

June 1, 1915

Supt. M. & R. Dept.

**THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,**

Absence, Conduct, and Workmanship Account, May, 1915.

	Time	Conduct	Workmanship <i>guten.</i>
Arnold, R.G.	---	100	98
Borstadt, G	---	100	98
Bush, W.M.	$\frac{1}{2}$ hr. lv	100	98
Dardis, W.M.	6 das. sick	100	97
French, H.W.	---	100	96.5
Gray, G.B.	---	100	98
Hetrich, J.M.	---	100	100
Hume, F.N.	---	100	98
Ligon, A.	---	100	98
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	98
Milson, J.W.	1 day 2 hrs. lv.		
Perry, R.J.	2 das. sick	100	98
Presnell, J.H.	---	100	98
Russell, M.A.	---	100	98
Schell, E.P.	5 hrs. lv.	100	95
Spencer, G.N.	2 hrs. lv.	100	98
St. John, F.	5 hrs. lv.	100	100
Stoddard, X.T.	$3\frac{1}{2}$ hrs. lv.	100	98
Whitaker, S.R.	3 hrs. lv.	100	98
Whitehead, H.R.	---	100	99
Willen, W.	2 hrs. lv.	100	98
Crory, J.H.	---	100	98

Gold and Silver Bullion and Minor Coinage Metal Balances in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent

181

	Sweeps	
8. Exch	81.987	169.097
8 "	996.886	
Surft. drops	61.908	
Lowens "	7.207	

[illegible]

Notes
written
Not
just most
July 11, 1915
all July 13
beginning note

July 1 1915
J. W. McLean, Superintendent Melting and Refining.

Denver Mint, Fiscal Year, 1915.

The Superintendent of the Melting and Refining Department received, operated upon, and delivered Gold and Silver bullion and Minor Coinage metal, from August 1st, 1914, to June 30th, 1915, 1916, as follows:

Items				
Receipts:	Gold Account Fine ozs.	Silver Account Fine ozs.	Nickel Account Troy ozs.	Bronze Account Troy ozs.
Set'm't bullion				
July 31, 1914	1,057,581.083	1,724,751.41	744,111.52	805,645.07
Deposits	1,091,182.660	721,863.37		
ReDeposits	553,700.118	224,856.16		
Clippings	170,924.816	70,037.05	713,950.60	503,463.95
Con'd Coin	77,136.747	29,036.40	54,376.70	33,950.50
" Blanks	45,203.670			
Treas. Purchases		500,000.96		
Sweeps bars, &c	2,251.595	1,127.01		
Proof metal	96.750			
Certificate bars	393,518.675			
Ingot copper			1,166,695.83	1,304,135.84
Ref'y "			14,933.58	
Nickel			291,112.50	
Surplus	138.667			
Totals	3,392,634.774	3,502,401.26	2,985,185.73	2,947,255.36
Deliveries:				
Ingot	852,592.032	890,300.47	2,481,942.89	2,296,892.00
Fine Bars	1,747.341	2,007,550.85		
Certif. "	1,195,166.563			
Unparted "	1,342,715.838	602,256.77		
Proof metal	10.000	56.78		
Due from Bureau	7.751	8.86		
Ingot copper			519,116.93	617,923.41
Nickel			177,904.65	
Zinc				12,747.29
Tin				8,464.16
Sweeps	395.249	776.89		
Wastage		1,450.84	6,220.76	9,325.50
Totals	3,392,634.774	3,502,401.26	2,985,185.73	2,947,255.36
Amount operated				
upon -- Ingot	880,176.510	907,543.53	2,514,158.10	2,326,316.85
Do -- Ref'y	1,396,656.325	1,169,114.45		
Totals	2,276,832.835	2,076,658.03	2,514,158.10	2,326,316.85

Refinery Operations, Denver Mint, Fiscal Year, 1915.

Gold Account

	Delivered to Refinery	Returned from Refinery
Crude Bullion with charges	1,184,530.347	
Bullion, .998 and over	31,975.013	
" without charges	179,875.153	
Fine Bars		1,363,482.509
Settlement Bullion, sweeps, etc.		33,173.816
Surplus	275.312	
Total	1,396,656.325	1,396,656.325

Silver Account

Crude Bullion with charges	862,801.65	
Bullion, .998 and over	752.25	
Do without charges	305,560.55	
Fine bars		1,127,539.02
Settlement bullion, sweeps, etc.		39,802.30
Wastage		1,773.13
Total	1,169,114.45	1,169,114.45

By-Products:

Electrolytic Copper,	2960.95 lbs.; estimated value	\$473.75
Sponge Platinum	205.49 Troy ozs. " "	6,575.68
Palladium	16.09 " " " "	514.88
Charges collected on bullion operated upon		78,740.87
Total earnings, including estimated value of by-products		\$86,305.18

MELTING AND REFINING DEPARTMENT BALANCES.

OF THE UNITED STATES AT Mint Denver
Gold and Silver Bullion and Minor Coinage in the hands of the Superintendent of Melting and Refining Department and Receipts from and Deliveries to the Superintendent
of the Mint by him during the month of July, 1915

RECEIVED.		GOLD, Fine Ounces.	Dec.	DELIVERED.		GOLD, Fine Ounces.	Dec.	RECEIVED.		NICKEL, Troy Ounces.	Dec.	DELIVERED.		NICKEL, Troy Ounces.	Dec.
Balance	<i>Re Delivery</i>	1342	733 589	Ingots		Balance		<i>Delivery</i>	497	021 17	Ingots				
contained in Gold Deposits		80	568 599	Bars, Fine							Bars				
contained in Silver Deposits		5	807 151	Bars, Standard											
contained in <i>Re Deposits</i>		80	075 520	Bars, Unparted											
Shipings, blanks, etc.				Bars											
	<i>2 3/4 lbs</i>	161	374	Sweeps											
	<i>1 lb</i>	0	81												
	<i>Chocolate stamp</i>	4	191												
	<i>Aluminum</i>	96	023												
	<i>Brass metal</i>	50	000												
Total		1509	496 534	Balance <i>July 31</i>		1509	496 534	<i>2512.100 84</i>			Balance <i>July 31</i>		497	021 17	
				Total		1509	496 534	<i>1509.496 534</i>			Total		497	021 17	
RECEIVED.	SILVER, Fine Ounces.	Dec.	DELIVERED.	SILVER, Fine Ounces.	Dec.	RECEIVED.	BRONZE, Troy Ounces.	Dec.	DELIVERED.	BRONZE, Troy Ounces.	Dec.				
Balance	<i>Re Delivery</i>	2490	742 06	Ingots		Balance	<i>Re Delivery</i>	639	134 86	Ingots					
contained in Gold Deposits		14	478 78	Bars, Fine						Bars					
contained in Silver Deposits		64	931 64	Bars, Standard											
contained in <i>Re Deposits</i>		21	784 96	Bars, Unparted											
Shipings, blanks, etc.				Bars											
	<i>8 3/4 lbs</i>	38	17	Sweeps											
	<i>1 lb</i>	46	82												
	<i>See last page</i>	3	54												
	<i>Aluminum</i>	78	08												
	<i>Brass metal</i>	50	00												
Total		2592	568 05	Balance <i>July 31</i>		2592	568 05	<i>1588.419 65</i>		Balance <i>July 31</i>		639	134 86		
				Total		2592	568 05	<i>2592.568 05</i>		Total		639	134 86		

Approved: _____, Superintendent.
August 2, 1915.
Superintendent Melting and Refining.

of the *West* by him during the *month of August* 191

Total

Sept 3, 1915

Superintendent Melting and Refining

GAIN & LOSS IN GOLD & SILVER in Melting GOLD ANODES, Denver Mint, August, 1915.

Melt Bars Weight	Before Melting				After Melting				Fine ounces			
	Fineness		Fine ounces		Fineness		Fine ounces		Gold		Silver	
	Gold	Silver	Gold	Silver	Gold	Silver	Gold	Silver	Gain	Loss	Gain	Loss
2	9402	.0529	5422.900	305.06	.9403	.0515	5423.321	297.03	.421			8.03
3	.8853	.1093	5042.243	622.70	.8858	.1080	5042.385	614.84	.642			7.86
4	.8846	.1040	5080.493	597.26	.8852	.1045	5082.712	600.02	2.219		2.76	
5	.8919	.0993	5140.749	572.58	.8925	.0980	5139.184	564.42		1.565		8.16
6	.8883	.1077	5091.371	617.32	.8885	.1065	5090.127	610.12		1.244		7.20
7	.8886	.1066	4992.059	598.85	.8889	.1050	4992.009	589.67		.050		9.18
8	.8900	.1050	5065.345	597.65	.8905	.1055	5065.181	600.08	.583	.164	2.43	
9	.9294	.0627	5422.015	365.51	.9297	.0630	5422.596	367.45			1.94	4.13
10	.8860	.1027	4940.406	573.65	.8864	.1020	4940.240	569.52				2.47
11	.8961	.0944	4931.585	519.52	.8965	.0940	4931.252	517.05				
12	.9750	.0208	5657.912	120.58	.9756	.0210	5656.255	121.75		1.657	1.17	
13	.8868	.1045	5093.813	600.42	.8869	.1050	5093.138	602.97		.675	2.55	
14	.8856	.1028	5052.967	586.70	.8856	.1065	5051.984	607.53		.983	20.83	
15	.9252	.0678	5295.323	367.89	.9251	.0700	5294.060	400.58		1.263	12.69	
16	.9309	.0605	5279.216	345.00	.9311	.0610	5279.160	345.85		.056	3.85	
17	.8960	.1049	5004.703	592.62	.8963	.1050	5005.902	593.04	1.199		.42	.95
18	.8925	.1011	5150.658	583.59	.8929	.1010	5150.934	582.64	.276			
19	.9098	.0651	5231.469	374.55	.9097	.0670	5229.137	385.12				
20	.8938	.1064	4925.766	601.42	.8942	.1065	4926.422	601.81	.733			
			97899.991	9560.67			97895.576	9571.49	6.073	10.488	58.80	47.98
			108402.97							6.073	47.92	
										4.415		

Melting Loss, Gold

Melting Gain, Silver

No. 1, Special

Melting Loss, Silver
Total gain

Fwd. 154540.55

32	51	5650.90	58461.269	83795.10	154417.93	58446.954	83843.77	12.449	26.764	161.17	112.50
33	7	5580.16	5101	2982.75	5346.53	5125	2893.84		.400	11.09	
34	6	5416.16	5599	3124.54	5576.30	5620	3133.83			9.34	
35	6	5386.46	5078	2750.47	5412.75	5080	2749.67	.150			
36	11	5599.51	5513	2969.32	5383.77	5520	2971.84	3.456			.80
37	11	5537.56	5374	3009.00	5597.15	5405	3025.25		1.437	2.52	
38	10	5542.40	5302	2997.598	5534.89	5330	2950.09	1.284		16.25	
39	12	5518.11	5495	2979.054	5539.81	5510	2950.09		.945	14.19	
40	7	5558.74	5373	2964.94	5513.37	5752	3052.43		.518	6.89	
41	6	5545.29	5329	2906.71	5556.35	5764	2982.73		1.472	17.79	
42	7	5537.29	5495	3047.01	5543.45	5753	2908.74		.499	2.03	
43	51	5506.77	5361	2913.17	5532.30	5495	3046.12		.321		.89
44	6	5573.43	5333	2936.90	5504.18	5382	2907.22		1.460		5.95
45	7	5522.49	5322	2139.55	5563.60	5734	2947.48		.117	10.58	
46	6	5589.99	5356	2894.45	5539.46	5780	3125.08		2.668	14.47	
47	9	5523.27	5184	2994.26	5537.89	5728	2919.55	16.213		25.10	
48	7	5564.45	5410	2863.24	5520.77	5760	2989.52	2.117			4.74
49	7	5569.86	5327	3010.52	5558.81	5632	2854.23	1.507			9.01
50	7	5547.45	5329	2967.09	5564.50	5708	3001.75		.271		8.77
51	6	5555.13	5381	3061.20	5541.49	5729	2971.44		1.956	4.35	
52	7	5506.76	5379	2989.96	5546.15	5691	3056.13		2.450		5.07
53	7	5572.03	5358	3016.03	5604.44	5650	2997.59		2.575	8.73	
54	7	5475.27	5353	2935.67	5569.05	5666	3009.58	.985			6.45
55	8	5593.80	5389	2954.996	5474.35	5360	2985.01	1.975			.66
56	6	5443.40	5389	3014.43	5591.44	5753	2882.24		.473	.36	
57	6	5548.50	5033	3042.24	5441.24	5787	3010.99	3.747			3.43
58	7	5560.53	5315	2987.00	5543.42	5680	3036.21	1.082			6.02
				2955.51	5557.58	5727	2782.83	1.407			4.17
				2955.51	5557.58	5727	2856.52		.093	1.21	
Fwd.		304176.25									
			114423.907	163383.23	303934.94						
						114423.690	163.991.83	46.402	44.419	291.60	183.00

SILVER ANODES -- Page 3

[illegible]

Respectfully submitted, September 7, 1915.

Superintendent Motting & Refining Department.

M. & R. Data, Fiscal Years, 1912 - 1915, inclusive.

Production -- Ingot Account. Standard Ounces.

Year	Gold ingots	Surplus	Wastage	Silver ingots	Surplus	Wastage
1912		201.646		3,252,236.18		798.06
1913	814,704.930	51,141		1,328,162.36	72.96	
1914	584,916.470		40.859	2,761,252.35		244.00
1915	947,324.480		163,991	989,222.74		268.63

Refinery Data. Fine Ounces.

	Production Gold	Silver	Earnings Chgs. collected on bullion, ex- clusive of by- products	Ctf. Bars Delivered
1912	1,473,358.456	912,142.66	\$75,809.03	1,476,903.914
1913	1,355,652.882	706,581.04	71,995.43	778,131.650
1914	1,666,849.662	730,460.43	92,090.55	1,352,913.321
1915	1,363,482.509	1,127,539.02	78,740.87	1,195,166.563

	Surplus Gold	Silver	Wastage Gold	Silver
1912			242.369	1,843.86
1913		336.14	80.380	
1914			329.028	462.88
1915	275.812			1,773.13

	Melting Gain and Loss -- Gold Anodes			
	Ounces Melted		Gold	
			Gain	Loss
1912				126.685
1913				
1914	1,567,820.31		137.873	2219.05
1915	599,584.66		4.553	351.95

	Melting Gain and Loss -- Silver Anodes			
1912			182.321	
1913				
1914	1,228,496.79		110.591	1341.44
1915	2,331,113.49		424.871	168.92

	Average Contents of Anodes					
	Gold Anodes			Silver Anodes		
	Gold	Silver	Base	Gold	Silver	Base
1912						
1913						
1914	.8475	.1240	.0285	.3849	.5319	.0832
1915	.9077	.0725	.0198	.3726	.5025	.1249

J. J. Williams
Asst. M. & R. Dept.

U.S. Mint
Sept 25, 1915

OF THE UNITED STATES AT

of the by him during the 191

RECEIVED.		GOLD, Fine Ounces.	Dec.	DELIVERED.		GOLD, Fine Ounces.	Dec.	RECEIVED.		NICKEL, Troy Ounces.	Dec.	DELIVERED.		NICKEL, Troy Ounces.
Balance				Ingot's				Balance				Ingot's		
Contained in Gold Deposits				Bars, Fine								Bars		
Contained in Silver Deposits				Bars, Standard										
Contained in				Bars, Unparted										
Chippings, blanks, etc.				Bars										
				Sweeps										
Total				Total				Total				Total		
RECEIVED.	SILVER, Fine Ounces.	Dec.	DELIVERED.	SILVER, Fine Ounces.	Dec.	RECEIVED.	BRONZE, Troy Ounces.	Dec.	DELIVERED.	BRONZE, Troy Ounces.	Dec.			
Balance			Balance			Balance			Balance					
Contained in Gold Deposits			Ingot's											
Contained in Silver Deposits			Bars, Fine											
Contained in			Bars, Standard											
Chippings, blanks, etc.			Bars, Unparted											
			Bars											
			Sweeps											
Total			Total			Total			Total			Total		

Superintendent.

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Journal of Superintendent Melting and Refining.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, September, 1915.

	Time	Conduct	Workmanship
Arnold, R.G.	---	100	98
Borstadt, G.	---	100	98
Bush, W.M.	---	100	98
Crary, J.H.	2 hrs. leave	100	98
Dardis, W.N.	---	100	97
French, H.W.	---	100	95
Gray, G.B.	4 days sick	100	98
Hetrich, J.M.	---	100	100
Hume, F.N.	---	100	98
Ligon, A.	---	100	98
Lindhard, J.A.	---	100	98
Lundin, A.H.	---	100	98
Milson, J.W.	4 days leave		
Perry, R.J.	---	100	98
Presnell, J.H.	---	100	98
Russell, N.A.	---	100	98
Schell, E.P.	---	100	95
Spencer, G.N.	---	100	98
St. John, F.	1½ hrs. leave	100	100
Stoddard, X.T.	---	100	98
Whitaker, S.R.	3 days sick	100	98
Whitehead, H.R.	---	100	99
Willan, W.	---	100	98

GAIN & LOSS in GOLD & SILVER in Melting GOLD ANODES, Denver Mint, September, 1915.

[illegible]

Nos. 21, 25, 29, 34, Specials

Melting Gains	11.174	58.10
Month's recoveries	1.691	.67
Total Gains	12.865	58.77

Fwd.		160654.33	60158.149	84950.77	160549.50	60187.458	85036.98	52.359	5.050	125.71	37.50		
103	6	5559.30	.3718	.5256	2066.783	2921.84	5557.57	.3721	.5260	2067.971	2923.28	1.188	1.44
4	10	5515.06	.3759	.5236	2073.081	2887.59	5514.35	.3759	.5255	2072.844	2897.79	.237	10.20
5	8	5564.62	.3687	.5396	2051.814	3002.83	5562.56	.3689	.5415	2052.028	3012.12	.214	9.29
6	5	4645.05	.3679	.5297	1708.685	2460.71	4640.42	.3683	.5305	1709.066	2461.74	.381	1.03
7	6	5528.41	.3731	.5429	2062.457	3001.31	5524.78	.3739	.5425	2065.715	2997.19	3.258	4.12
8	6	5529.32	.3733	.5202	2064.319	2876.57	5525.79	.3739	.5210	2065.345	2877.89	1.026	1.32
9	6	5505.41	.3741	.5410	2059.411	2978.49	5503.85	.3745	.5405	2061.191	2974.83	1.780	3.66
110	6	5511.63	.3761	.5478	2072.874	3019.17	5509.07	.3766	.5480	2074.715	3018.97	1.841	.20
1	5	4808.55	.3678	.5352	1768.755	2562.93	4789.81	.3685	.5390	1765.044	2581.70	3.711	17.77
2	71	5590.62	.3660	.5687	2045.963	3179.15	5587.30	.3666	.5690	2048.304	3179.17	2.341	.02
3	7	5572.92	.3758	.5258	2094.373	2930.42	5569.20	.3760	.5275	2094.019	2937.75	.354	7.33
4	7	5548.22	.3738	.5282	2073.886	2935.69	5542.84	.3740	.5295	2073.022	2934.93	.864	1.24
5	7	5582.43	.3644	.5700	2034.275	3181.77	5580.95	.3645	.5710	2034.256	3186.72	.019	4.95
6	8	5545.66	.3786	.5168	2038.725	2865.13	5540.13	.3790	.5170	2039.709	2864.24	.984	.89
7	7	5579.67	.3698	.5374	2063.518	2998.67	5578.39	.3702	.5370	2065.119	2995.59	1.601	3.08
8	7	5554.77	.3744	.5279	2079.802	2932.13	5553.93	.3749	.5280	2082.168	2932.47	2.366	.24
9	5	5543.08	.3707	.5330	2054.607	2954.40	5538.54	.3710	.5315	2054.798	2945.73	.191	10.67
120	7	5541.20	.3762	.5226	2084.651	2895.84	5536.77	.3761	.5250	2082.379	2906.80	2.272	10.96
1	7	5563.75	.3653	.5456	2032.587	3035.70	5559.00	.3655	.5470	2031.814	3040.77	.628	5.07
2	8	5586.51	.3720	.5408	2078.123	3021.40	5580.54	.3725	.5420	2078.751	3024.65	.573	3.25
3	8	5531.57	.3766	.5100	2082.965	2821.18	5476.06	.3767	.5140	2082.831	2814.69	20.134	6.49
4	6	5592.43	.3690	.5258	2063.730	2940.35	5589.07	.3694	.5265	2064.602	2942.64	.872	2.29
5	6	5435.34	.3820	.5558	2076.499	3009.99	5431.42	.3825	.5555	2077.518	3017.15	1.019	7.16
6	7	5549.26	.3727	.5545	2067.939	3076.82	5545.74	.3732	.5565	2069.670	3086.20	1.751	9.38
7	6	5532.00	.3726	.5526	2061.203	3056.83	5528.71	.3722	.5545	2063.514	3065.66	2.111	8.83
8	6	5527.80	.3714	.5454	2053.324	3014.70	5525.44	.3721	.5445	2056.016	3008.60	3.692	6.10
9	6	5543.17	.3745	.5447	2072.125	2959.38	5540.12	.3754	.5440	2079.761	2952.90	3.594	5.52
130	7	5550.05	.3744	.5333	2077.878	2947.52	5511.70	.3757	.5372	2079.139	2953.72	1.261	5.08
1	68	5516.42	.3650	.5343	2013.728	3084.07	5511.70	.3657	.5372	2075.486	3084.07	2.590	7.98
2	8	5590.21	.3711	.5517	2074.721	3125.38	5585.54	.3716	.5510	2075.486	3125.38	1.579	12.26
3	7	5590.10	.3683	.5591	2059.083	3116.64	5587.19	.3690	.5590	2061.673	3124.62	1.579	7.98
4	6	5574.29	.3732	.5591	2080.393	3116.64	5569.75	.3738	.5610	2081.972	3124.62	1.579	7.98
Totals		536561.15		125614.268	179764.17	536281.36	125653.426	179931.13	70.372	31.214	251.34	84.38	

Melting Gains
Months Recoveries

46.594	177.36
31.214	84.38
39.158	166.96
7.433	10.40

U.S. Mint, Denver, Oct. 7, 1915

Supt. M. & R. Dept.

Reverend

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Bullion held by Superintendent Melting and Refining Department,
Denver Mint, at the close of business on the 31st day of
October, 1915.

Gold Bullion	Fine ounces
Refined	40,056.972
Unrefined	<u>1540,143.106</u>
Total	1580,200.078

Silver Bullion	
Refined	1772,690.17
Unrefined	723,953.64
Ingots (H.O.I.)	<u>43,017.85</u>
Total	2539,661.66

Minor Coinage Metal	Troy ounces
Copper	765,521.86
Tin	8,126.87
Zinc	12,241.35
Nickel	<u>126,071.85</u>
Total	911,961.93

Respectfully submitted,

Joseph W. Milson
Supt. M. & R. Dept.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, October, 1915.

	Time	Conduct	Workmanship
Arnold, R.G.	1 hr. lv.	100	98
Borstadt, G.	1 day sick	100	98
Hush, W.M.	1 hr. lv.	100	98
Crary, J.H.	----	100	98
Dardis, W.N.	$\frac{1}{2}$ hr. lv.	100	97
French, H.W.	4 hrs. "	100	95
Gray, G.B.	2 hrs. "	100	98
Hetrich, J.M.	----	100	100
Hume, F.N.	----	100	98
Ligon, A.	----	100	98 - 1
Lindhard, J.A.	1 day lv.	100	98
Lundin, A.E.	----	100	98
Milson, J.W.	4 hrs. lv.	100	98
Perry, R.J.	----	100	98
Fresnell, J.H.	2 das. sick	100	98 - 1
Russell, W.A.	----	100	95
Schell, E.P.	1 day $3\frac{1}{2}$ hrs. lv.	100	98
Spencer, G.N.	----	100	100
St. John, F.	4 das. 5 hrs. lv.	100	98
Stoddard, X.1	4 hrs. lv.	100	98
Whitaker, S.1	2 " "	100	98
Whitehead, H.	$4\frac{1}{2}$ " "	100	99

Gain & Loss in Gold and Silver in Melting GOLD ANODES, Denver Mint, October, 1915.

Melt Bars	Weight	Before Melting				After Melting				Fine ounces			
		Fineness		Gold	Silver	Fineness		Gold	Silver	Gain	Loss	Gain	Loss
		Gold	Silver			Gold	Silver						
35	5639.92	.9272	.0653	5229.234	368.37	5639.71	.9272	.0665	5229.139	375.04			
6	5553.68	.9093	.0703	5049.925	390.65	5553.25	.9095	.0700	5050.680	388.72	.755	.095	6.67
7	5528.41	.9340	.0586	5163.388	324.00	5527.52	.9343	.0595	5164.361	328.88	.973		1.93
8	5272.32	.8873	.1042	4677.926	549.34	5271.25	.8874	.1035	4677.707	545.57			4.88
9	5239.03	.8876	.1010	4641.067	528.29	5271.42	.8876	.1010	4639.857	527.96			3.77
40	5348.57	.8838	.1061	4727.246	567.46	5346.45	.8845	.1050	4728.935	561.37	1.689	1.210	.23
1	5707.67	.8856	.1078	5054.896	615.22	5705.83	.8861	.1075	5055.935	613.37	1.039		6.09
2	5695.73	.8869	.1025	5051.580	583.82	5693.79	.8873	.1055	5052.099	600.69	.519		1.85
	43975.33			39595.262	3927.15				39598.713	3941.60	4.975	1.524	28.42
											1.524		13.97
											3.451		14.45
											.956		20
											4.407		14.65

Fwd.		139294.55		51672.814		75377.99		139203.52		51697.003		75549.00		34.542		10.553		189.53		18.52	
163	8	4926.50	.3735	.5414	1839.955	2667.45	4923.01	.3739	.5445	1840.713	2680.57	.758	13.12								
4	8	4965.69	.3707	.5378	1840.600	2670.45	4965.64	.3709	.5390	1841.014	2675.40	.414	4.95								
5	5	4945.09	.3718	.5324	1838.816	2632.66	4942.72	.3725	.5355	1841.163	2646.82	2.347	14.16								
6	8	4956.71	.3723	.5306	1845.561	2629.88	4954.60	.3729	.5310	1847.570	2630.89	2.009	1.01								
7	6	4923.79	.3734	.5462	1838.740	2689.37	4921.70	.3736	.5520	1838.747	2718.77	.007	27.40								
8	6	4922.84	.3764	.5467	1853.013	2691.24	4919.55	.3767	.5500	1853.194	2705.75	.181	14.51								
9	6	4944.35	.3739	.5471	1848.689	2705.18	4942.92	.3745	.5470	1851.123	2703.77	2.434	1.41								
170	6	4944.03	.3738	.5451	1847.985	2694.80	4943.43	.3738	.5450	1847.854	2694.16										
1	6	4952.81	.3741	.5441	1853.080	2694.69	4951.66	.3744	.5440	1853.901	2693.70	.821	.64								
2	6	4941.41	.3740	.5454	1848.069	2694.99	4939.19	.3744	.5455	1849.232	2694.32	1.163	4.49								
3	65	4807.72	.3626	.5738	1743.291	2758.71	4805.58	.3625	.5750	1742.022	2763.20										
4	5	4944.34	.3692	.5485	1825.556	2712.10	4941.11	.3693	.5480	1824.751	2707.72	1.269	3.42								
5	5	4940.41	.3717	.5301	1856.145	2619.12	4937.96	.3718	.5300	1835.933	2617.11	.805	7.36								
6	6	4953.91	.3736	.5351	1850.815	2650.92	4952.14	.3740	.5360	1852.100	2654.34	.212	2.01								
7	7	4952.43	.3754	.5162	1859.443	2656.66	4949.85	.3756	.5180	1859.163	2664.02	1.285	4.29								
8	7	4939.64	.3738	.5324	1846.405	2629.97	4937.04	.3742	.5325	1847.440	2628.97	.280	1.00								
9	5	4946.70	.3753	.5419	1857.959	2680.65	4948.56	.3759	.5440	1858.374	2689.42	1.035	8.77								
180	5	4952.84	.3742	.5255	1853.574	2602.76	4945.54	.3744	.5265	1852.740	2605.41	.415	2.65								
1	6	4947.80	.3749	.5257	1855.117	2600.85	4941.76	.3746	.5270	1847.437	2603.82	.834	2.97								
2	7	4933.37	.3747	.5270	1848.703	2600.13	4931.76	.3746	.5320	1855.072	2599.03	.045	1.77								
3	6	4932.24	.3748	.5323	1848.408	2625.45	4927.56	.3758	.5320	1852.615	2622.64	4.207	1.10								
4	6	4950.25	.3749	.5314	1855.952	2630.33	4947.79	.3758	.5320	1850.777	2632.10	4.825	2.81								
5	50	4751.35	.3763	.5449	1787.875	2588.73	4748.89	.3767	.5450	1788.906	2588.14	1.051	5.9								
6	6	4945.06	.3761	.5465	1859.954	2702.63	4942.89	.3768	.5460	1862.480	2698.81	2.526	3.82								
7	6	4942.83	.3782	.5327	1869.602	2632.83	4940.51	.3786	.5330	1870.477	2633.29	.875	.46								
8	5	4937.13	.3742	.5405	1847.445	2668.43	4935.39	.3746	.5390	1848.797	2660.17	1.352	8.77								
9	7	4970.39	.3735	.5325	1853.447	2646.57	4963.27	.3746	.5350	1859.240	2655.34	2.793	4.84								
190	8	4960.37	.3736	.5283	1853.012	2620.64	4958.43	.3740	.5295	1854.452	2625.48	1.440	4.03								
1	5	4937.67	.3746	.5388	1849.835	2660.41	4932.93	.3753	.5385	1851.328	2656.38	1.493									
2	7	4935.03	.3771	.5360	1861.215	2645.06	4932.16	.3773	.5370	1860.903	2648.56	1.047	5.50								
3	6	4949.66	.3758	.5341	1859.959	2643.40	4948.17	.3761	.5345	1861.006	2644.79	.312	1.39								
4	7	4962.50	.3759	.5358	1865.498	2658.90	4960.82	.3760	.5370	1865.268	2663.96	.260	5.06								
5	6	4954.51	.3766	.5336	1865.762	2643.63	4952.19	.3766	.5350	1864.994	2649.42	.768	5.79								
6	7	4949.46	.3776	.5335	1868.947	2640.75	4946.09	.3784	.5340	1871.800	2641.21	2.653	.46								
7	307115.40				114454.241	165568.33	306938.37			114609.389	165844.48										

Respectfully submitted, Nov. 5th, 1915.

Supt. M. & R. Department.

Melting gains
Month's recoveries
Total gains

16505
55.148
8.510
55.658

50.23
276.15
11.73
287.88

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Bullion held by Superintendent of Melting and Refining Department,
Denver Mint, at the close of business on the 30th day of
November, 1913.

Gold Bullion

Refined
Unrefined

Total

Fine ounces

75,145.495
1,559,692,736

1,634,838.231

Silver Bullion

Refined
Unrefined
Ingots (Half Dollar)

Total

1,597,976.44
734,416.80
21,918.65

2,354,311.89

Minor Coinage Metal

Copper
Tin
Zinc
Nickel
Ingots (Brass)

Total

Troy ounces

734,286.24
7,441.28
11,212.96
126,071.85
29,778.10

908,790.43

Respectfully submitted,

For J. M. Keenick
Sup. M. & R. Dept.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT,

Statement of Minor Coinage Metal Available December 1st, 1915.

Copper on hand	734,286.00	ozs.
50 tons to come	<u>1,458,300.00</u>	"
Total Copper	2,192,586.00	"
Copper to Nickel Ingots	<u>578,213.00</u>	"
	1,814,373.00	"
Copper to Bronze Ingots	<u>1,729,342.00</u>	"
	85,031.00	"
	(Used for Silver alloy to date)	
Nickel on hand	126,071.00	(Use all)
Tin	7,441.00	ozs.
Rec'd in Nov.	<u>29,166.00</u>	"
	36,607.00	(Use all)
Zinc	11,212.00	ozs.
Rec'd in Nov.	<u>43,749.00</u>	"
	54,961.00	(Use all)
The above to provide for Nickel Ingots	504,000.00	ozs.
" " " Bronze	1,820,000.00	"

Respectfully,

John H. Heston

For Supt. M. & R. Dept.

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Absence, Conduct, and Workmanship Account, November, 1915.

	Time	Conduct	Workmanship
Arnold, R.G.	1 hr. lv.	100	98
Berstadt, G.		100	98-99
Bush, W.M.	2 das. 1 hr. lv.	100	98
Crary, J.H.		100	98
Dardis, W.H.		100	97
French, H.W.		100	95
Gray, G.B.	4 hrs. lv.	100	98
Hettrich, J.H.		100	100
Hume, F.N.	4 hrs. lv.	100	98
Ligon, A.		100	96-97
Lindhard, J.A.		100	98
Lundin, A.H.		100	98-99
Milson, J.W.	9 das. 3 hrs. lv.		
Perry, R.J.		100	98-99
Presnell, J.H.	6 das. sick	100	98
"	2 hrs. lv.		
Russell, H.A.		100	96-97
Schell, E.P.	$\frac{1}{2}$ hr. lv.	100	95-96
Spencer, G.N.		100	98
St. John, F.	$4\frac{1}{2}$ hrs. lv.	100	100
Stoddard, X.T.	1 hr. lv.	100	98-99
Whitaker, S.R.	7 hrs. lv.	100	98-
"	1 hr. without pay		
Whitehead, H.R.		100	99-100

November

5.

312.94

1772.92

85.98

2171.84

134.68

134.449

63,468.53

422.333

62,701.28

197,640.07

158,093.520

19,952.93

124,265.42

11,713.087

99,667.86

385,508.70

170,363.389

182,322.07

172,882.60

172,799.045

162,757.15

162,675.77

335,859.75

172,799.045

162,675.77

9721.28

632½

1000 1000 1000

1000 1000 1000

1000 1000 1000

1000 1000 1000

1000 1000 1000

1000 1000 1000

Josephine

November

5.

156.47

379.25

38.27

573.99

458,436.71

454,183.55

99.1

54,451.10

52,330.70

98.1

385.11

2120.40

30,818.65

J. A. Wilson

222	6	4954.65	.3756	.5539	1861.810	2744.34	4951.14	.3760	.5545	1861.628	2745.40	1.265	1.182	4.22
221	6	4956.82	.3754	.5541	1860.608	2647.28	4954.20	.3753	.5535	1859.311	2645.06	1.297	1.182	
220	6	4958.36	.3762	.5538	1865.179	2628.77	4956.04	.3766	.5510	1866.444	2631.65	1.075	1.297	
219	6	4973.16	.3722	.5599	1851.222	2685.25	4971.27	.3726	.5440	1852.295	2704.37	1.075	1.297	
218	6	4968.80	.3782	.5219	1879.306	2593.32	4967.40	.3786	.5260	1880.657	2612.85	1.351	1.137	
217	6	4941.21	.3746	.5268	1850.950	2602.99	4938.90	.3750	.5315	1852.087	2625.02	1.137	1.137	
216	6	4963.85	.3730	.5358	1851.449	2658.72	4961.52	.3735	.5350	1853.127	2654.41	1.879	1.879	
215	6	4979.68	.3659	.5296	1821.772	2636.90	4978.49	.3661	.5320	1822.625	2648.55	.855	1.137	
214	6	4974.02	.3761	.5221	1870.626	2597.07	4968.20	.3766	.5210	1871.024	2588.43	.396	1.137	
213	6	4964.48	.3772	.5280	1872.393	2621.41	4961.39	.3772	.5285	1871.436	2622.03	.396	1.137	
212	6	4956.65	.3736	.5408	1851.669	2680.50	4958.95	.3741	.5410	1853.265	2680.07	1.596	1.137	
211	6	4944.91	.3765	.5470	1861.580	2705.03	4942.42	.3770	.5465	1863.292	2701.05	1.712	1.137	
210	6	4968.85	.3755	.5384	1866.407	2675.32	4967.26	.3759	.5390	1867.193	2677.35	1.786	1.137	
209	6	4946.93	.3759	.5375	1859.476	2659.05	4944.00	.3765	.5395	1861.416	2667.28	1.040	1.137	
208	6	4955.36	.3761	.5295	1863.545	2623.68	4953.28	.3768	.5310	1863.395	2630.19	2.852	1.137	
207	6	4965.09	.3739	.5291	1856.225	2627.08	4961.25	.3746	.5320	1858.484	2639.38	2.259	1.137	
206	6	4944.92	.3810	.5298	1884.194	2619.68	4941.18	.3816	.5300	1885.515	2618.82	1.260	1.137	
205	6	4924.09	.3808	.5207	1875.257	2665.97	4916.91	.3821	.5250	1879.515	2582.42	4.258	1.137	
204	6	4940.38	.3807	.5202	1881.107	2570.34	4938.49	.3812	.5205	1882.552	2570.46	1.445	1.137	
203	6	4937.10	.3790	.5209	1878.870	2638.34	4952.80	.3796	.5230	1880.008	2630.20	1.156	1.137	
202	6	4966.94	.3790	.5308	1882.467	2636.32	4965.50	.3793	.5325	1882.655	2643.06	.198	1.137	
201	6	4937.10	.3778	.5215	1865.059	2574.57	4933.62	.3779	.5215	1864.414	2572.88	.625	1.137	
200	6	4966.08	.3769	.5247	1871.927	2605.61	4964.21	.3773	.5245	1872.996	2603.72	1.069	1.137	
199	6	4964.77	.3763	.5235	1867.995	2599.26	4960.27	.3769	.5235	1869.845	2611.56	1.050	1.137	
198	6	4949.38	.3774	.5255	1868.070	2598.05	4949.65	.3773	.5235	1867.502	2605.99	1.125	1.137	
197	6	4955.56	.3772	.5245	1868.625	2598.05	4949.65	.3773	.5235	1867.502	2605.99	1.125	1.137	
196	6	4972.68	.3766	.5246	1867.355	2601.17	4952.48	.3769	.5235	1869.845	2604.42	1.125	1.137	
195	6	4948.64	.3807	.5219	1883.733	2582.75	4945.66	.3806	.5235	1878.887	2582.79	.440	1.137	
194	6	4945.18	.3799	.5180	1878.447	2586.21	4942.14	.3801	.5225	1876.887	2582.79	.440	1.137	
193	6	4911.60	.3795	.5270	1883.947	2586.21	4908.11	.3802	.5225	1886.063	2613.55	2.115	1.137	
192	6	4930.42	.3716	.5346	1835.249	2785.84	4927.39	.3723	.5325	1834.467	2725.82	.081	1.137	
191	6	4978.82	.3735	.5355	1859.937	2785.84	4974.58	.3733	.5360	1859.498	2725.82	.081	1.137	
190	6	4969.10	.3784	.5455	1891.261	2705.41	4958.91	.3795	.5499	1890.155	2666.71	.081	1.137	
189	6	4917.25	.3821	.5198	1879.044	2555.95	4915.16	.3825	.5220	1879.065	2555.95	.081	1.137	
188	6	4955.59	.3766	.5264	1856.323	2603.40	4952.96	.3766	.5290	1856.275	2615.16	.048	1.137	
187	6	4970.08	.3734	.5282	1868.811	2613.30	4968.34	.3758	.5270	1867.102	2613.30	.048	1.137	
186	6	4951.57	.3785	.5242	1897.222	2601.06	4958.69	.3763	.5260	1897.442	2602.51	.220	1.137	
185	6	4959.83	.3760	.5250	1894.944	2603.87	4958.08	.3766	.5245	1897.812	2600.51	.220	1.137	
184	6	4934.46	.3759	.5294	1854.723	2612.30	4932.59	.3762	.5315	1856.640	2621.67	.917	1.137	
183	6	4916.70	.3803	.5340	1870.730	2616.41	4915.45	.3805	.5325	1870.709	2616.41	.917	1.137	
182	6	4954.65	.3756	.5539	1861.810	2744.34	4951.14	.3760	.5545	1861.628	2745.40	1.265	1.182	
181	6	4956.82	.3754	.5541	1860.608	2647.28	4954.20	.3753	.5535	1859.311	2645.06	1.297	1.182	
180	6	4958.36	.3762	.5538	1865.179	2628.77	4956.04	.3766	.5510	1866.444	2631.65	1.075	1.297	
179	6	4973.16	.3722	.5599	1851.222	2685.25	4971.27	.3726	.5440	1852.295	2704.37	1.075	1.297	
178	6	4968.80	.3782	.5219	1879.306	2593.32	4967.40	.3786	.5260	1880.657	2612.85	1.351	1.137	
177	6	4941.21	.3746	.5268	1850.950	2602.99	4938.90	.3750	.5315	1852.087	2625.02	1.137	1.137	
176	6	4963.85	.3730	.5358	1851.449	2658.72	4961.52	.3735	.5350	1853.127	2654.41	1.879	1.879	
175	6	4979.68	.3659	.5296	1821.772	2636.90	4978.49	.3661	.5320	1822.625	2648.55	.855	1.137	
174	6	4974.02	.3761	.5221	1870.626	2597.07	4968.20	.3766	.5210	1871.024	2588.43	.396	1.137	
173	6	4964.48	.3772	.5280	1872.393	2621.41	4961.39	.3772	.5285	1871.436	2622.03	.396	1.137	
172	6	4956.65	.3736	.5408	1851.669	2680.50	4958.95	.3741	.5410	1853.265	2680.07	1.596	1.137	
171	6	4944.91	.3765	.5470	1861.580	2705.03	4942.42	.3770	.5465	1863.292	2701.05	1.712	1.137	
170	6	4968.85	.3755	.5384	1866.407	2675.32	4967.26	.3759	.5390	1867.193	2677.35	1.786	1.137	
169	6	4946.93	.3759	.5375	1859.476	2659.05	4944.00	.3765	.5395	1861.416	2667.28	1.040	1.137	
168	6	4955.36	.3761	.5295	1863.545	2623.68	4953.28	.3768	.5310	1863.395	2630.19	2.852	1.137	
167	6	4965.09	.3739	.5291	1856.225	2627.08	4961.25	.3746	.5320	1858.484	2639.38	2.259	1.137	
166	6	4944.92	.3810	.5298	1884.194	2619.68	4941.18	.3816	.5300	1885.515	2618.82	1.260	1.137	
165	6	4924.09	.3808	.5207	1875.257	2665.97	4916.91	.3821	.5250	1879.515	2582.42	4.258	1.137	
164	6	4940.38	.3807	.5202	1881.107	2570.34	4938.49	.3812	.5205	1882.552	2570.46	1.445	1.137	
163	6	4937.10	.3790	.5209	1878.870	2638.34	4952.80	.3796	.5230	1880.008	2630.20	1.156	1.137	
162	6	4966.94	.3790	.5308	1882.467	2636.32	4965.50	.3793	.5325	1882.655	2643.06	.198	1.137	
161	6	4937.10	.3778	.5215	1865.059	2574.57	4933.62	.3779	.5215	1864.414	2572.88	.625	1.137	
160	6	4966.08	.3769	.5247	1871.927	2605.61	4964.21	.3773	.5245	1872.996	2603.72	1.069	1.137	
159	6	4964.77	.3763	.5235	1867.995	2599.26	4960.27	.3769	.5235	1869.845	2611.56	1.050	1.137	
158	6	4949.38	.3774	.5255	1868.070	2598.05	4949.65	.3773	.5235	1867.502	2605.99	1.125	1.137	
157	6	4955.56	.3772	.5245	1868.625	2598.05	4949.65	.3773	.5235	1867.502	2605.99	1.125	1.137	
156	6	4972.68	.3766	.5246	1867.355	2601.17	4952.48	.3769	.5235	1869.845	2604.42	1.125	1.137	
155	6	4948.64	.3807	.5219	1883.733	2582.75	4945.66	.3806	.5235	1878.887	2582.79	.440	1.137	
154	6	4945.18	.3799	.5180	1878.447	2586.21	4942.14	.3801	.5225	1876.887	2582.79	.440	1.137	
153	6	4911.60	.3795	.5270	1883.947	2586.21	4908.11	.3802	.5225	1886.063	2613.55	2.115	1.137	
152	6	4930.42	.3716	.5346	1835.249	2785.84	4927.39	.3723	.5325	1834.467	2725.82	.081	1.137	
151	6	4978.82	.3735	.5355	1859.937	2785.84	4974.58	.3733	.5360	1859.498	2725.82	.081	1.137	
150	6	4969.10	.3784	.5455	1891.261	2705.41	4958.91	.3795	.5499	1890.155	2666.71	.081	1.137	
149	6	4917.25	.3821	.5198	1879.044	2555.95	4915.16	.3825	.5220	1879.065	2555.95	.081	1.137	
148	6	4955.59	.3766	.5264	1856.323	2603.40	4952.96	.3766	.5290	1856.275	2615.16	.048	1.137	
147	6	4970.08	.3734	.5282	1868.811	2613.30	4968.34	.3758	.5270	1867.102	2613.30	.048	1.137	
146	6	4951.57	.3785	.5242	1897.222	2601.06	4958.69	.3763	.5260	1897.442	2602.51	.220	1.137	
145	6	4959.83	.3760	.5250	1894.944	2603.87	4958.08	.3766	.5245	1897.812	2600.51	.220	1.137	
144	6	4934.46	.3759	.5294	1854.723	2612.30	4932.59	.3762	.5315	1856.640	2621.67	.917	1.137	
143	6	4916.70	.3803	.5340	1870.730	2616.41	4915.45	.3805	.5325	1870.709	2616.41	.917	1.137	
142	6	4954.65	.3756	.5539	1861.810	2744.34	4951.14	.3760	.5545	1861.628	2745.40	1.265	1.182	
141	6	4956.82												

THE MINT OF THE UNITED STATES AT DENVER,
MELTER AND REFINER'S DEPARTMENT.

Bullion held by Superintendent of the Melting and Refining Department,
U. S. Mint, Denver, at the close of business, December 31, 1915.

	Fine ounces
<u>Gold Bullion</u>	
Refined	18,056.982
Unrefined	<u>1,503,157.858</u>
Total	1,521,214.820

<u>Silver Bullion</u>	
Refined	1,691,127.08
Unrefined	<u>724,509.24</u>
Total	2,415,636.32

	Troy ozs.
<u>Minor Coinage Metal</u>	
Copper	1,675,670.23
Tin	25,396.61
Zinc	37,460.54
Nickel	126,071.95
Ingot (Bronze)	<u>18,369.60</u>
Total	1,883,268.93

Respectfully,

Joel W. Wilson

Superintendent M. & R. Dept.

January 4, 1916.

THE MINT OF THE UNITED STATES AT D/ER,
MELTER AND REFINER'S DEPARTMENT,

Absence, Conduct, and Workmanship Account, December, 15.

	Time	Conduct	Workmanip
Arnold, R.G.		100	98
Borstadt, G.	2 hrs. lv	100	99
Bush, W.M.		100	98
Crory, J.H.	3 hrs. lv.	100	98-99
Dardis, W.W.	3 das. 5 hrs. without pay	100	97-98
French, H.W.		100	95-96
Gray, G.B.		100	98
Hetrich, J.M.		100	100
Hume, F.N.		100	98-
Ligon, A.		100	97-98
Lindhard, J.A.		100	98
Lundin, A.E.	3 days sick 1 1/2 hrs. lv.	100	99
"	3 das. lv.		
Milson, J.W.		100	99
Perry, R.J.		100	98
Presnell, J.H.		100	97-98
Russell, N.A.	2 hrs. lv.	100	96-97
Schell, B.P.		100	98
Spencer, G.N.		100	100
St. John, F.	3 das. 5 hrs. lv. 1 day sick	100	99
"		100	98
Stoddard, X.T.		100	98
Whitaker, S.R.		100	100
Whitehead, H.R.		100	98
Willan, W.R.		100	

Decembe

5

317.84

1809.77

135.47

2263.08

x

x

75,778.81 738.235 74,087.52

234,993.37 188643.787 23,018.53

102,071.14 11898.245 79,889.19

412,843.32 801,270.347 177,594.84

170,242.38 170,181.283

167,569.65 187,514.57

337,812.03 170,181.283 187,514.57

11,108.54

x

631

Prior product, Silver
Gross, 74,401.77
Fine ozs. 74,363.93

x

x

x

Journal

ember

5

158.91

430.48

56.00

645.7

x

x

x

x

x

x

779,878.30

778,971.50

99.8

xxxx gain

acct. clean-up (which produced 1572.30)

665.50

None

Joe Wilson

